

CONNECTICUT



HOSPITAL SIGNAL
SYSTEMS



TELEPHONE
AND
SIGNAL SYSTEMS



FOR
APARTMENT HOUSES
RESIDENCES
INDUSTRIAL PLANTS
SCHOOLS AND BANKS

CONNECTICUT

SIGNALING SYSTEMS



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MERIDEN, CONNECTICUT



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CONNECTICUT HOSPITAL SIGNALING SYSTEMS AND EQUIPMENT

DESCRIPTIVE INDEX

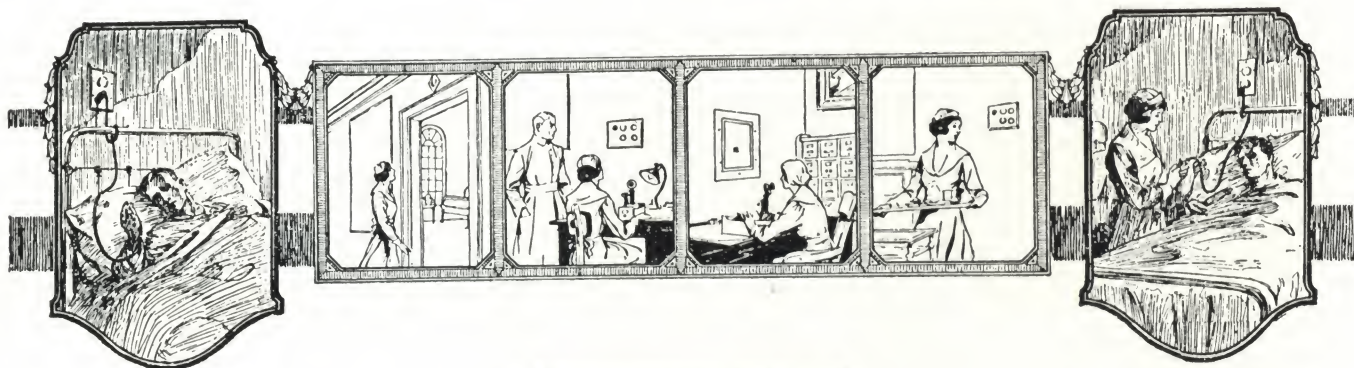
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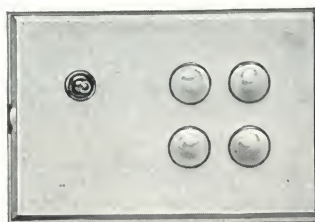
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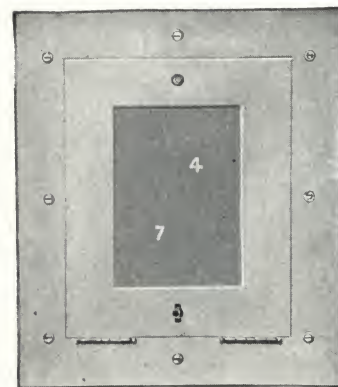
LOW VOLTAGE AUTOMATIC NURSES' CALL SYSTEM



CORRIDOR LAMP

INDICATING DUTY
STATIONELAPSED TIME
RECORDER

WARD CALLING STATION

THE BUTTON
THE HEART OF THE SYSTEM

FLUSH ANNUNCIATOR

Connecticut Nurses' Call System is a complete, flexible and dependable low-voltage (12-volt a-c. or d-c.) lamp signaling system for calling the nurse to the bedside of the patient requiring attention.

The calling button is the heart of the system. When the patient, either in ward, private room or solarium, presses the plunger of the calling button, it mechanically closes a circuit switch and the call is flashed automatically to the dome type lamp above the ward or private room door; to the pilot lamp annunciator at nurses' duty and diet kitchen stations, and the head nurse's or superintendent's office. It also operates buzzers where desired. This mechanical oper-

ation eliminates the need of relays, magnetic switches, solenoids, or other similar devices, reducing to a minimum the cost of installation and maintenance. This is the simplest form of system, but it may be laid out to any degree of moderation or elaboration desired.

The component parts of the system and their uses are more fully described in the following pages, so that the users of this catalogue will have complete information.

All parts have been designed and engineered after a very careful study of the problems involved and are guaranteed to be free from electrical and mechanical defects.

THE CONNECTICUT AUTOMATIC CALLING BUTTON

With the Lamp Flashing Signal Feature

The Most Important Part of the System

The calling button is the most important part of the system as it is from here that all calls emanate. The button is foolproof and stands up under severest usage. It is all metal, including the plunger, practically eliminating replacements due to breakage and assuring positive operation.

All the springs and connections are riveted and maintain a permanent adjustment. A substantial clamp for fastening the rubber covered extension cord is punched out as a part of the frame. The outside case is made of heavy brass, chromium plated.

The plunger passes through a metallic bushed hole to obviate sticking. The cord connections are easily accessible. The current-carrying parts are safely insulated from the case besides having an insulating shell like that used in electric light sockets. The plug is similarly insulated.

Special Flashing Feature

One of the special features of our button is that the patient can cause an intermittent flash on all lamps connected to that bedside station by alternately pressing the plunger. A full thrust of plunger operates buzzers at duty stations; releasing permits plunger to slip back in the locking position, closing lamp circuit and lighting signals on bedside pilot, corridor door light, duty stations, and master annunciator. Continued pressure of plunger, after call has been made and button locked, flashes the lamp and sounds buzzer. This flashing feature is valuable in attracting attention,

especially at duty stations if buzzers have been switched off for quietness.

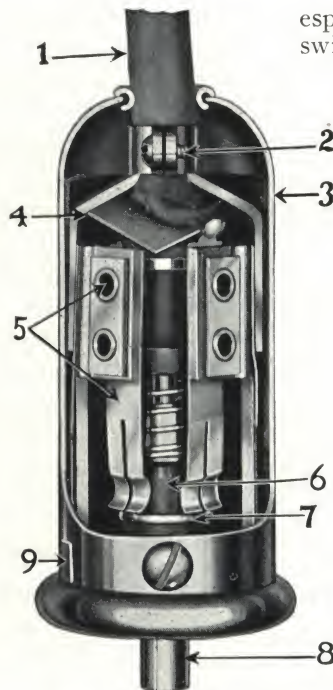
Release Features for Resetting the Call

When a call has been made by a patient and the lamps lighted, they can only be extinguished and the call cancelled at the bedside by releasing the button. Two methods are provided: key release and finger release. For key release a bushed hole is placed just below the rim of the cap. A small key is provided which works through the opening against a trigger, releasing the button. Any small, dull instrument may be used in place of the key. For finger release a slot is provided with a spring, above the trigger, and the button is released by pressing the spring with the finger. Slot is so shaped and located that the call cannot be reset by the patient handling the button.

Advantages of the 5-Contact Station

The cost of installation can be materially reduced by using 5-contact stations which permit running an extra common wire back to a central point and terminating at a single pilot lamp, as against individual wires with the 4-contact station, terminating at annunciator. It also permits many additional special signals and makes possible combining telephone service between bedside station and central points, using the regular nurses' calling system wiring, by inserting telephone plug in place of button plug.

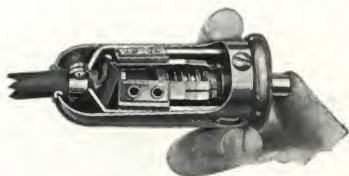
Special Safeguard Signal Feature—In case the plug is pulled out of the receptacle by accident, all lights on system are at once lighted as in case of a regular call.



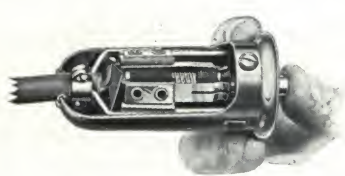
Cut-away View of Calling Button (Full size)

1. Tyrex Rubber cable
2. Improved Clamp for fastening cable
3. Heavy gauge brass shell, chromium plated, fibre insulated
4. All-metal mounting frame
5. Contact springs riveted to frame
6. Bakelite plunger body
7. Solid brass contact ring
8. Chromium plated plunger
9. Finger or key release

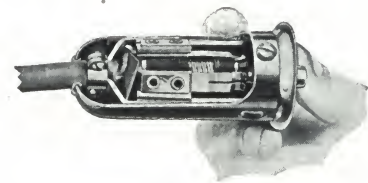
PROGRESSIVE ILLUSTRATIONS SHOWING OPERATION OF THE BUTTON



Ready for Signal
Neither lamp nor buzzer in circuit



Full Thrust
Flashes lamps and sounds buzzer



Normal "On" Position
Keeps lamps lighted but breaks buzzer circuit

Sanitary Cord

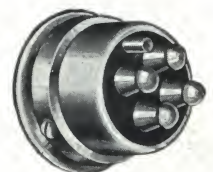
This cord has stranded copper conductors, encased in a heavy coating of highest grade live rubber giving unusually long life, and colored for identification. Its smooth surface is easily washed. To prevent undue pull on the wires, a strain bushing is slipped under the outer insulation at end, directly inside the plug shell, eliminating the necessity of knotting the conductors.



Washable Cord

Metal Plug

This is a specially designed all-metal plug with four or five poles according to the circuit requirements. The plug is detachable by either a slight side or direct pull, preventing undue strain upon the cord. The case is made of heavy brass, chromium plated and insulated in the same manner as the button.



Five Point Plug

CALLING STATION EQUIPMENT

Under this heading is included all the equipment usually installed in the wall, at the bedside or at any other point to which it may be necessary or desirable to summon a nurse or doctor in case of emergency. The push button, cord and plug already described are detachable parts of many of these stations.

Construction Details

Receptacles have moulded bakelite base with contact springs of bronze to insure perfect contact and long life. The springs are held in place by eyelets which are riveted, making a rigid unit in which there is nothing to come loose and cause trouble. Face of the receptacle which forms a guide plate, through which the contact pins of the plug are inserted, is also of black moulded bakelite. Line connections are made to screw terminals, brass threaded, with safety cup connectors. Receptacles are made for 4-way or 5-way plugs to meet different wiring conditions.

Sub-plates Prevent Marring Finish

A special feature of all Connecticut wall stations is the double plate consisting of a sub-mounting plate and a finished plate. The sub-mounting plate permits

the installation of the equipment complete, including making all connections, before the final finish is put on the walls. It protects the mechanism and wiring from damage during the finishing of the walls. The finish plate can be screwed in place at a later date after the room is finished and decorated.

The sub-plate is of heavy steel with sprayed, black lacquer finish. It is punched to accommodate the necessary receptacles and sockets and is provided with slots for accurate alignment. It fits standard gang outlet boxes.

The finish plate is of .060-in. brass except for No. 9039W which is of cast bronze. It is the same size as the standard switch plates and covers the sub-plate to which it is attached by screws.



Ward Station
Sub-plate

Finish

The standard finish is Egyptian white enamel, will not chip or crack, is washable and easily kept clean. No. 9018W Balcony Station is finished in black enamel only.

CATALOGUE NUMBERS OF STATIONS TO USE FOR VARIOUS LOCATIONS

Location	Nurses' calling only	Page	Calling with emergency feature	Page	Location	Nurses' calling only	Page	Calling with emergency feature	Page
Private rooms.....	9010W	5	9010WE	6	Solariums (open)....	9018W	7	9018WE	7
Semi-private rooms...	9010W*	5	9010WE*	6	Solariums (closed)...	9020W	7	9020WE	7
Private wards.....	9014W*	5	9014WE	6	Contagious rooms...	9038W	7
Public wards.....	9014W*	5	9014WE	6	Operating rooms.....	9039W	7
Balcony	9018W	7	9018WE	7	Baths, Toilets.....	9020W	7	9020WE	7

*When room stations are equipped with double cord for two-bed service, add letter "D" after catalogue number, i.e. 9010W-D or 9014W-D. For stations with service light, see page 6.

Nurses' Calling Stations

No. 9010W Private Room Calling Station

This is the simplest type of calling station and consists only of a receptacle for the plug connected to the calling button. It is intended for use in private and semi-private (2-bed) rooms. It may be used in wards if no bed pilot lamps are required, but the No. 9014W Station is preferable for ward service.

Fits any standard 1-gang switch box or outlet box cover; extreme depth, 1 3/8 in.

No. 9014W Ward Calling Station With Bull's-eye Signal

This station is similar to No. 9010W with the addition of a bull's-eye signal above the receptacle. This signal indicates at once to the nurse entering the ward which bed is calling. The bull's-eye is removable for easy replacement of lamps. Lamp socket is equipped with tension spring to prevent lamp jarring loose.

Fits any standard 1-gang switch box or outlet box cover; extreme depth, 1 5/8 in.

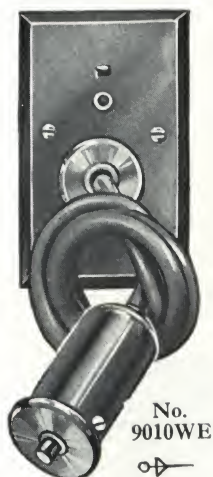


No.
9010W
⊕—



No.
9014W
⊕⊕

Emergency Calling Stations

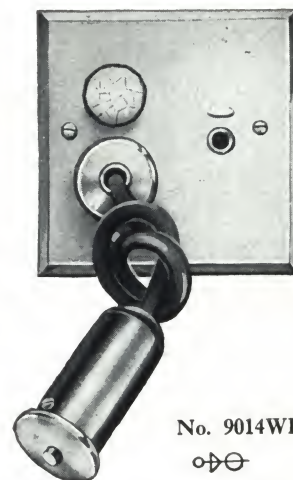


No. 9010WE

Wherever the maximum in service is to be rendered, these emergency calling stations should be installed:

Should the nurse answering a call find the patient in critical condition, these stations enable her to send in a call for a doctor and additional nurses without leaving the bedside or stopping such emergency measures as she may be able to take before the arrival of the doctor.

They have the regular equipment of the stations described on page 4, and in addition have an emergency button. This is an automatic button with green plunger mounted on the wall plate to operate a similar system of green lights* distinctive from the white light signal of the Nurses' Call. Instead of sounding a buzzer momentarily, as in the case of the Nurses' Call, depressing the button starts the ringing of emergency bells in the doctors' rooms, nurses' duty rooms, etc. These bells continue to ring until the call is answered and the button reset at the bedside.



No. 9014WE

No. 9010WE Private Room Station with Emergency Call

Similar to No. 9010W with the emergency button mounted above the receptacle for the cord plug.

Fits any 1-gang switch box or outlet box cover; extreme depth, $2\frac{1}{4}$ in.

No. 9014WE Ward Station with Emergency Call

Similar to No. 9014W with the emergency button mounted beside the receptacle for the cord plug.

Fits any 2-gang switch box or outlet box cover; extreme depth, $2\frac{1}{4}$ in.

*Note: Green has been selected instead of red because of conflicting fire prevention laws.

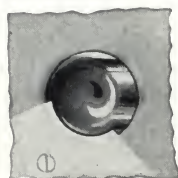
Calling Stations with Service Light

When calls are answered at night, these stations provide sufficient light for the nurse to attend the ordinary wants of the patient, without brilliantly illuminating the entire room or ward. The hood of the service lamp may be rotated to throw the rays to the point desired. These stations require no extra wiring for service light feature. This light operates on 12 volts and draws its supply from the feed wires which are already at the outlet for the signaling system.

An additional feature that may be incorporated in any of these stations is the extra receptacle for extension lamp for throat or minor examinations. When specified, add letter "C" to style number. May be added to stations described below without increasing size of plate or outlet box.

No. 9059W Ward Calling Station with Service Light

Consists of the standard No. 9014W Ward Station Equipment and in addition a service lamp with hood and toggle switch mounted at the side. The bull's-eye signal light serves to guide the nurse to the bedside where it can be extinguished after throwing the switch to light the service light. Fits any



Hood Rotated to Throw Light to Left



No. 9059W



Hood Rotated to Throw Light to Right

standard 2-gang switch box or outlet box cover; extreme depth, $1\frac{5}{8}$ in.

No. 9059WC Ward Calling Station with Service Light and Extension Cord Jack

Same as No. 9059W

but fitted with jack receptacle for service light.

No. 9059WE Ward Calling Station with Service Light and Emergency Call

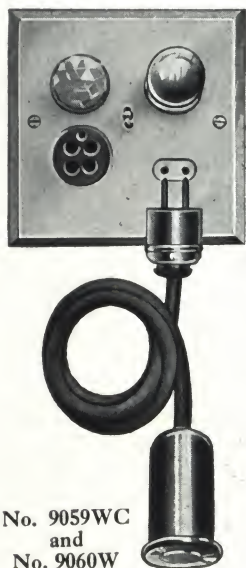
Same as No. 9059W with the addition of the emergency button. Fits any 3-gang switch box or outlet box cover; extreme depth $2\frac{1}{4}$ in.

No. 9059WEC Ward Calling Station with Service Light, Emergency Call and Extension Cord Jack

Same as No. 9059W but fitted with jack receptacle for service lamp.

No. 9060W Extension Lamp

For use with No. 9059WC and No. 9059WEC calling stations. Equipped with plug, 6 ft. rubber cord and 12-volt lamp enclosed in chromium plated brass shell with clear lens.

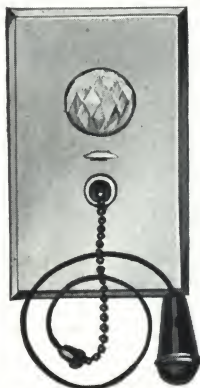


No. 9059WC and No. 9060W

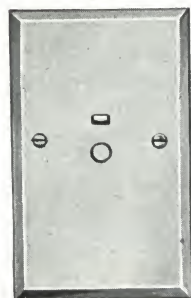
Calling Stations for Special Locations

For Nurses' Telecall System, see page 34

No. 9038W Contagious Room and Ward Station



No. 9038W



No. 9020W



The circuit closing mechanism is mounted on the sub-plate on the under surface of a .060 single gang brass plate and is operated by a 6-ft. extension cord terminating in a neat pendant. Cord is attached to plunger through a removable bushing which permits easy replacement.

Construction is practically an inverted automatic button. When cord is pulled, plunger is locked in position, keeping the lamp circuits closed until released by the trigger just above cord bushing. A slight extra pull on cord sounds the buzzers momentarily and flashes lights. Operating equipment is remote from patient and cords may be easily replaced at little expense.

Furnished less bull's-eye for private rooms and with bull's-eye for ward use. Fits standard 1-gang switch box or outlet box cover; extreme depth, $2\frac{1}{4}$ in.

No. 9020W Wall Calling Station

Designed for bathrooms, toilets, etc., and for operating rooms not requiring foot operated station.

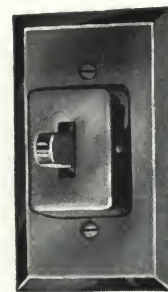
The mechanism consists of an automatic button assembled to sub-plate, mounted on the underside of a .060 gauge, single gang brass plate. The operation is the same as the automatic button except that the plunger is released by the trigger directly above the button. Can be equipped also with the emergency button on same size plate. Fits standard 1-gang switch box or outlet box cover; extreme depth, $2\frac{1}{4}$ in.

No. 9039W Operating Room Calling Station

Designed to mount in the base board of the room to operate by a pressure of the foot or at such height on the wall as to operate by a touch of the elbow. Construction similar to our standard type of locking button and operated by a lever, pressure on which locks the plunger in position, keeping lamp circuits closed until released by resetting the lever. All mechanism is mounted on the sub-plate.

A pilot lamp should be located at some convenient point in the room to show that the call is in.

Constructed ruggedly to withstand the hard treatment to which it is subjected when operated by the foot. The finish plate is of cast bronze. Operating lever is of bronze, $1\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$ in. Fits any standard 1-gang switch box or outlet box cover; extreme depth, $2\frac{1}{4}$ in.



No. 9039W



No. 9018W Weatherproof Calling Station

For use in solariums, balconies, porches and exposed locations. The equipment and functions are the same as No. 9010W. Finish plate is provided with a hinged cap which can be closed when station is not in use and which keeps out moisture. Finish is black enamel. Regularly equipped with 15-ft. cord. Is not equipped with safety receptacle. Fits standard 1-gang switch box or outlet box cover; extreme depth, $1\frac{3}{8}$ in.



No. 9018W



Extra Cords, Plugs and Buttons

All calling stations are regularly furnished complete with automatic button, cord and plug. It is advisable to have on hand a few extra buttons, cords and plugs already assembled for use in case of accident or other emergency. These may be ordered separately as follows:

No. 9022W Single Cord—Consists of an Automatic Button, 6 ft. of special rubber-covered, washable cord and plug. Suitable for use with No. 9010W and No. 9014W Calling Stations.

No. 9023W Double Cord—Consists of two Automatic Buttons and two 6-ft. cords connected to a single plug. For use with stations serving two adjoining beds. Individual cord holes in the plug eliminate the necessity of a combined cord. Stock cord cut to length is brought together at the terminals.



No. 9023W

No. 9024W Single Weatherproof Cord—Consists of an automatic button, 15 ft. of rubber-covered, washable cord and plug. For use with No. 9018W Weatherproof Calling Station.

No. 9057W Blank Plug—A special plug to prevent signals from a calling station when the regular

plug cord and button is removed. A number of these are furnished with each system.

No. 9060W Extension Lamp for Throat Examinations—Consists of a special lamp holder with 6-ft. extension cord and attachment plug for connection to 9059WC stations. Furnished with longer cord when desired. We are prepared to furnish stations with an automatic cord reel.

Extension Lamp Receptacles—For this feature on any calling station, add letter "C" to style number.

Directions for Ordering

Key Release—For this feature, add "K" to the style number.

Keyless Release—For this feature, add "T" to the style number.

Four-contact Station—For this feature, include "4" after the style number.

Five-contact Station—For this feature, include "5" after the style number.

Double Cords—For double 6-ft. cords on calling stations, add "D" to the style number.

Emergency Button—For this feature on any calling station, add "E" to the style number.

No. 9060W Extension Cord is not furnished with station and should be ordered separately.

CONNECTICUT CORRIDOR LAMP STATIONS

With the Double Lamp Protection Feature

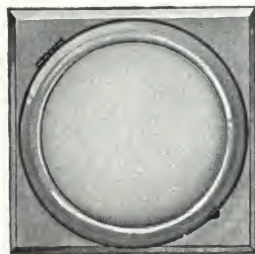
Most authorities agree that the corridor lamp station is one of the most important signals in the system. They are used generally in the corridor above the doors to private rooms and wards to locate the patient calling. They are also used in corridors of large hospitals at the end of branch corridors to indicate whether the call is to the right or left. They are also used for emergency calls and may be used at the Duty Quarters as a central pilot station with from 1 to 4 lamps. Our stations have many special patented features which are described below.

The Corridor Lamp Station

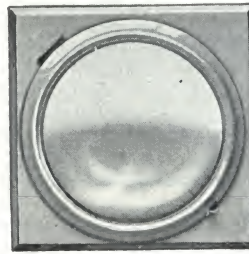
It consists of an opalescent glass dome held within a gasketed dustproof light-tight brass frame, hinged to a brass plate having 2-gang drilling. A snap catch holds the frame tightly closed but a slight pressure opens it and exposes the lamp unit. The hinged cover is especially desirable for re-lamping as a ladder is generally required to reach the fixture. By a unique arrangement it can be mounted either on the diagonal or the straight horizontal, as preferred; this does not affect the installation of the outlet box. No screws show on the face of the plate as all are within the diameter of the dome.

The Double Lamp Protection Feature

It is of the utmost importance that the corridor lamp station be ready for operation at all times. In order to overcome the possibility of the station being out of service due to the burning out of a single lamp, we recommend two lamps wired in multiple as a safeguard. These are arranged on opposite sides of a barrier so that if one burns out only half of the dome

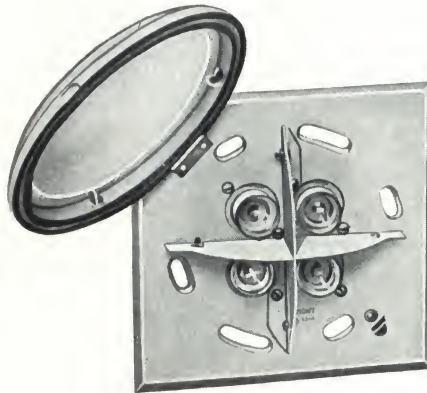


Both Lamps Lighted



One Lamp Burned Out

No. 9025W Corridor Lamp Station



No. 9025WE

View with hinged dome raised showing double barrier feature

will be lighted, indicating that one lamp must be replaced as well as registering the call. This eliminates the necessity of depending on one lamp, and of discovering by accident that a lamp has burned out.

The use of the double barriers allows the station to be used for emergency or additional service; with clear lamps on one side and green lamps on the other. While lighting only one half of the dome for each service, both calls would come in simultaneously without interference. The doubly protected feature is also used in this service with the double barrier.

The domes are fitted for one, two, three or four lamp outlets, and with single or double barrier or without barrier depending on circuit and service requirements.

Finish of Frames and Plates

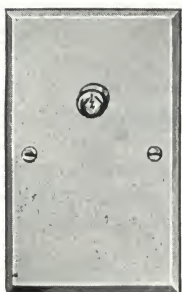
White Enamel is the standard finish and is very durable and will not crack or

check. Other color finishes can be supplied at a slight additional charge over the standard finish when so required.

Types and Numbers of Dome Corridor Lamp Stations

All types fit the standard 2-gang outlet box or cover; extreme depth, 1 $\frac{5}{8}$ in.

No.	Type and Service	Lamps	Barrier
9025W	Corridor Station Protective Feature	Two	Single
9025WE	Corridor Station, Emergency Call Protective Feature	Four	Double
9026W-1	Corridor Lamp Station	One	None
9026W-2	Corridor Lamp Station	Two	None
9026W-3	Corridor Lamp Station	Three	None
9026W-4	Corridor Lamp Station	Four	None



No. 9032W



No. 9032W Buzzer Station

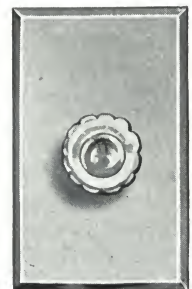
This flush buzzer station is equipped with silencing switch mounted on sub-base assembled to standard .060 gauge single gang brass plate. For use when it is desirable to have buzzer independent of pilot station or annunciator.

Finish is white enamel. Fits standard 1-gang switch box or outlet box cover; extreme depth, 2 in.

No. 9035W Corridor Exposed Lamp Station

This is an inexpensive type of station. It consists of an exposed frosted bulb and candelabra socket in a standard size switch plate. Plate is finished in white enamel. Two lamps may also be supplied on the same size plate for safeguard or emergency service.

No.	Type and service	Lamps
9035W-1	Corridor Station, Exposed Lamp	One
9035W-2	Corridor Station, Emergency Call, Exposed Lamps	Two



No. 9035W



DUTY STATIONS

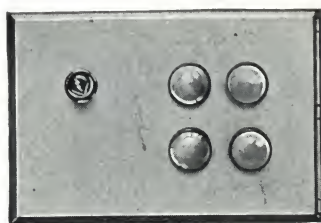
General

The stations shown on this page are intended for use in duty rooms, diet kitchens, utility rooms, etc. They are of two types: one with an individual bull's-eye indicator for each circuit; one with a dome, beneath which as many as four lamps may be mounted. Both have a low-tone buzzer and silencing switch.

Front plate of brass is hinged to a sub-plate on which lamp sockets and buzzer are mounted. When front plate is swung back it permits access to the lamps, etc. When closed it conceals all mounting screws. It is held closed by a snap catch.

Finish—Standard is white enamel which is washable and easily kept clean.

Outlet Boxes—All stations illustrated fit standard 3-gang switch box or outlet box cover; extreme depth, 2 in.



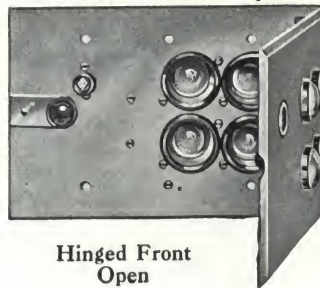
No. 9033W



No. 9033W Bull's-eye Indicating Duty Station

Used to indicate a group of private rooms, wards or sections or any combination of them.

The bull's-eyes are opal lenses with smooth outer surface which prevents the accumulation of dirt. They are of such a character that the indication, which is a Gothic letter or numeral engraved on the inner surface, becomes magnified and is readily discernible even when viewed from the side. The bull's-eyes are fastened permanently into the hinged front plate and cannot get out of alignment.



Hinged Front Open



Front View



Taken from Angle of 80°

Opal Lens Bull's-eye Indicators

Standard Sizes—

No. 9033W-2, Two-lamp

No. 9033W-4, Four-lamp

No. 9033W-6, Six-lamp

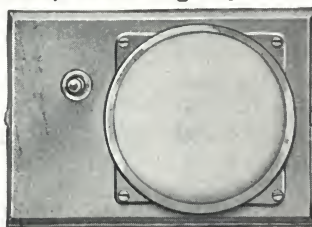
No. 9033W-8, Eight-lamp

Larger sizes are built to order.

For each additional two lamps over four, increase the size of the outlet box by one gang.

No. 9028W Dome Type Duty Station

Used to indicate a group of private rooms, wards or sections, or any combination of them where a common signal is desired and identification signals are not required. It consists of an opalescent glass dome held by means of a cast frame to a hinged front plate. Is fitted with from 1 to 4 lamps beneath a single dome for circuit purposes, each lamp operating on a respective sectional wire. A buzzer and cut-out switch are provided for audible signal.



No. 9028W



This station can also be furnished with a bell for emergency service, our No. 9028WE.

Standard Sizes—

No. 9028W-1, One-lamp

No. 9028W-2, Two-lamp

No. 9028W-3, Three-lamp

No. 9028W-4, Four-lamp

Larger sizes are built to order.

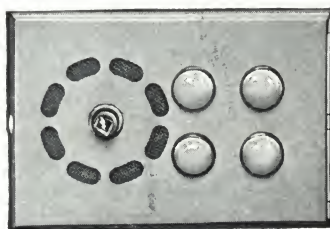
For each additional dome over one, increase the size of the outlet box by two gangs.

No. 9031WE Bull's-eye Duty Station with Emergency Bell

This station is similar to No. 9033W with the addition of a permanently connected bell behind the screened openings. It is used only on systems equipped with the emergency call feature. Signals for the nurse indicate on the bull's-eyes and by the buzzer. When the nurse answering the call requires additional assistance and presses the emergency button on the wall station, the light lights and the bell continues to ring until the call is answered and cancelled by the emergency nurse.

Standard Sizes—

No. 9031WE-1, One-lamp No. 9031WE-3, Three-lamp
No. 9031WE-2, Two-lamp No. 9031WE-4, Four-lamp



No. 9031WE

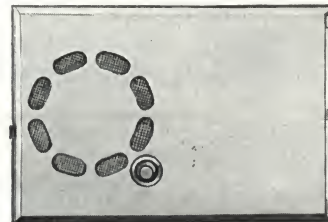


No. 9034WE Emergency Bell and Buzzer Station

This station is used where it is desirable to indicate to those within hearing that a call has been made, but it is not necessary to indicate the location. The nurse hearing the buzzer or bell must go to the corridor or duty room to ascertain the section or ward calling.

The buzzer is used on the Nurse's Call System. It is provided with a silencing switch which cuts the buzzer out of service when not required.

The bell is mounted behind the screened opening and is permanently connected to the emergency calling circuit for summoning a doctor or another nurse.



No. 9034WE



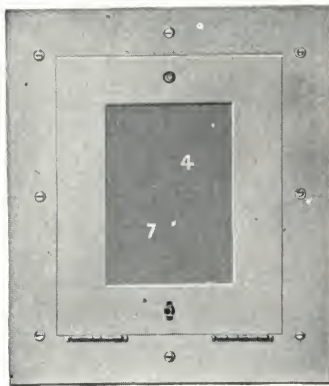
SUPERVISORY EQUIPMENT

Lamp Annunciators for Head Nurse's and Superintendent's Office

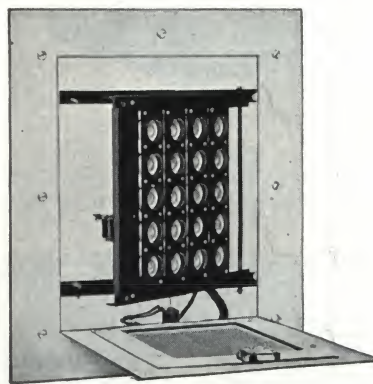
In every complete system some means of supervising the work of the nurses is desirable and in large hospitals it is essential. The equipment shown on this page is for use in the Superintendent's office, at the Head Nurse's desk or in any place where central supervision is desired.

It provides a quick means for determining whether calls are being answered promptly, where the load is heaviest and possibly more help is needed. It protects the patient against undue delay in answering calls and protects the nurse against unjust complaints of lack of attention.

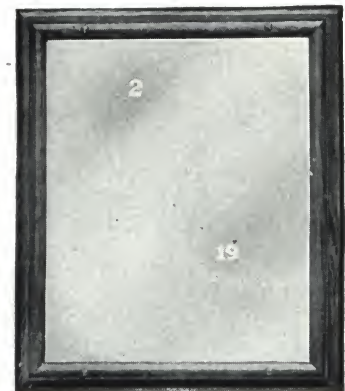
Flush and Surface Type Annunciators



No. 9029W



No. 9029W Opened



No. 9009W



General

Lamp annunciators are built in two types, Flush and Surface. Both have a white glass front showing engraved Gothic letters or numerals when illuminated. Each lamp is shielded to prevent cross lighting of adjacent numbers. Porcelain, candelabra base lamp sockets, fitted with a tension spring to prevent the lamp from jarring loose, are used in both types of annunciators.

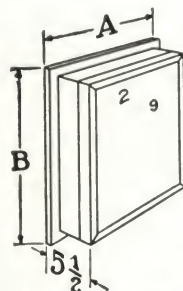
A buzzer mounted inside the case sounds momentarily when a lamp lights and again whenever the patient depresses the automatic locking button before the call is answered. A silencing switch is provided to cut the buzzer out of service when desired.

All annunciators are supplied complete with lamps but a reserve stock should always be kept on hand to replace any which burn out.

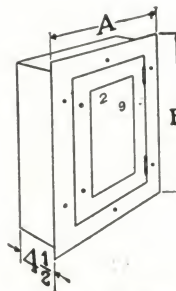
No. 3514-A Mazda Lamp—Is standard for all apparatus. It is a candelabra base, 12-volt, 3-watt, tungsten filament lamp.

No. 9029W Flush Type Lamp Annunciator

Has metal trim with hinged door containing the glass front. Door is provided with a lock. The lamp sockets, arranged in banks of five, are mounted on an iron frame which is integral with the front. The frame swings out-



Surface Type



Flush Type

DIMENSIONS OF ANNUNCIATORS, INCHES

Surface type			Flush type						No. of stations
No.	Overall		No.	Overall		Wall opening			
	Width	Height		Width	Height	Width	Height		
9009W-10	15	8 1/2	9029W-10	19 1/2	16 1/2	17 1/2	14	10	
9009W-15	15	9 7/8	9029W-15	19 1/2	16 1/2	17 1/2	14	15	
9009W-20	15	11 5/8	9029W-20	19 1/2	21 1/2	17 1/2	19	20	
9009W-25	15	13 3/8	9029W-25	19 1/2	21 1/2	17 1/2	19	25	
9009W-30	25	9 7/8	9029W-30	19 1/2	21 1/2	17 1/2	19	30	
9009W-40	25	11 5/8	9029W-40	19 1/2	25 1/2	17 1/2	23	40	
9009W-50	25	13 3/8	9029W-50	19 1/2	29 1/2	17 1/2	27	50	

Note: Depth of outlet boxes, 4 1/2 in.

ward and to the right for convenience in handling incoming wires. Sockets are permanently cabled at the factory to fixed terminal strips in outlet box. Line wires are brought in and fastened under the screw heads of the terminal strip.

Annunciator is furnished complete with a heavy gauge sheet metal outlet box with standard knockouts. Box may be shipped and installed in advance of the apparatus.

When so specified, the outlet box may be fitted with extra 2-way or 4-way connectors, making a convenient central testing point for all circuits.

No. 9009W Surface Type Lamp Annunciator

Has hardwood case in which the glass front is mounted. Front is removable for convenience in installing. Sockets are arranged in banks of five in the smaller sizes and ten in the larger. They are mounted in the case on steel frame which is hinged to the back and swings open to permit access to the incoming wires and connections. Sockets are permanently cabled at the factory to fixed terminal strips on the back of the case. Line wires are brought in through the back and connected under the screws of the terminal strip.

ELAPSED TIME RECORDER

No. 9030W 20-Station Recorder

This is an automatic instrument usually installed in the Superintendent's office for making a permanent record of all calls. It records in ink on a strip chart every call made from each station, showing the time the call was made and the time consumed in answering it. The chart feeds continuously for 15 days before renewal. Regularly furnished in 20-station



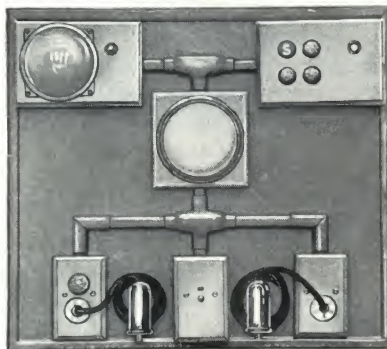
No. 9030W

units. A number of these units can be grouped in one cabinet and numbered for ready identification. Cabinets may be of wood or metal with glass doors and finished as desired to match the furniture in the office.

The instrument is substantially built and is housed in a heavy metal case with glass panels. Standard finish of metal parts is white enamel.

NURSES' CALL SYSTEM FOR EXISTING HOSPITALS

Existing hospitals and institutions equipped with an antiquated system or none at all will find that Connecticut apparatus readily adapts itself to standard metal molding fittings. System may be installed or extended with very little disturbance, without drilling or cutting large holes in the wall. Metal molding, containing all wiring, may be run along the wall and



when painted the same color, is very inconspicuous. We would be pleased to furnish further information on this class of installation, on request.

The illustration at the left shows the method of installation and appearance of Connecticut equipment when installed in an existing hospital with metal molding.

POWER SUPPLY EQUIPMENT

Heavy Duty Type Transformer

For operating Nurses' Call System where alternating current is available, we recommend a Heavy Duty Type Transformer for the most economical operation. It should be of a design approved by the National Board of Fire Underwriters. We furnish transformers built especially for this class of service and recommend their purchase with balance of signaling apparatus as a guarantee for proper operation. Standard transformers are designed for use on 110-volt, 60-cycle current with 12-volt secondary. When ordering, specify primary and secondary voltages, wattage and frequency.



No. 555W

- No. 555W— 50-watt, 110-volt, 60-cycle—12-volt secondary
- No. 555W—100-watt, 110-volt, 60-cycle—12-volt secondary
- No. 555W—250-watt, 110-volt, 60-cycle—12-volt secondary
- No. 555W—500-watt, 110-volt, 60-cycle—12-volt secondary

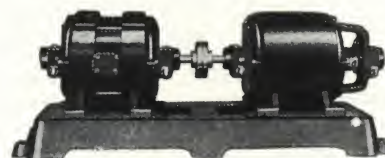
Data for Ordering Transformer

To arrive at correct size of transformer, multiply the total number of lamps by three (watts) and divide

by three. As there are seldom more than one-third the total number of lamps lighted at one time, the transformer selected should have an output in wattage equal to that figured.

Motor Generators, Batteries and Charging Panels

Where direct current only is available, a motor generator set is usually supplied in conjunction with a storage battery. We supply the equipment complete with battery racks, charging panel and necessary instructions for installing. When ordering, the voltage and service available should be given.



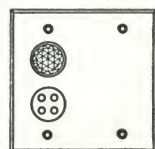
Motor Generator Set

- No. 23W—12-ampere Storage Battery Glass Jar Type Cell
- No. 23W—24-ampere Storage Battery Glass Jar Type Cell
- No. 23W—40-ampere Storage Battery Glass Jar Type Cell
- No. 24W—Battery Cabinet, 12-cell capacity
- No. 14W—Charging Panel complete in steel case

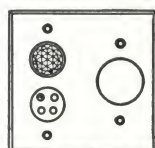
EXTRA GANG PLATES FOR ADDITIONAL EQUIPMENT ON HOSPITAL STATIONS

The following extra gang sizes are for the accommodation of additional equipment (equipment not included) on same plate with calling stations. Nurses' Calling Stations all have standard single gang plates .060 thick.

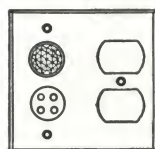
Special plates for extra service can be furnished up to eight gangs. Face plates are of the struck-up type but solid plates can be furnished upon request. Standard finish, white enamel; special finishes when so ordered. Outlet boxes are not supplied.



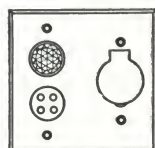
A—Blank for Covering Outlet Not Being Used or for Possible Future Use



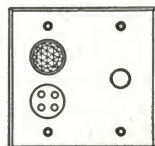
B—Accommodating Standard Single Receptacle Convenience Outlet; without Cover



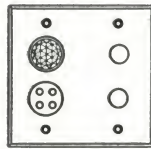
C—Accommodating Duplex Plug Receptacles Bryant No. 122, H & H No. 1482 or Similar



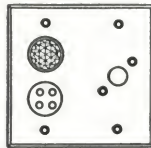
D—Accommodating Standard Flush Plug or Lamp Receptacles; with Lift Cover



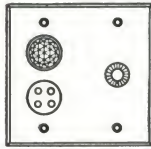
E—Accommodating Single Radio Jack for One Circuit



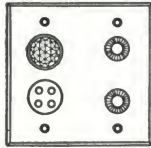
F—Accommodating Double Radio Jack for Two Circuits



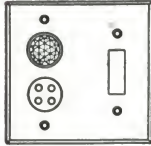
G—Accommodating "W.E." No. 190 or No. 367 Telephone Jack for Plugging in Portable Type Telephone or Public Phone Service Desk Stand



H—One Bushed Hole for Bringing Out Telephone Cord for Use Where Cord Outlet Is Required for Desk Telephone



J—Two Bushed Holes for Bringing Out Telephone and Radio Cords.



K—Accommodating Standard Flush Lighting Switch; Toggle Type

STANDARD BOXES FOR CONNECTICUT EQUIPMENT

Connecticut apparatus described on the preceding pages fits standard outlet boxes and covers, but these are not supplied with equipment. We do, however, furnish boxes for all flush type annunciators which will be shipped in advance of other material. Boxes are of heavy gauge sheet metal with standard knock-outs on four sides and are marked for identification before shipping.

When low voltage wall stations are ganged with other units requiring 110-volt current for operation, it is required by the Underwriters to separate the low and high voltage wiring by a metal barrier.

Steel City Electric Company and National Electric Products Corporation, Pittsburgh, Pa., now stock boxes

to fit any of the standard size plates with metal partitions for any combination.

On installations where the various units are mounted on surface of wall, the majority of the stations described are adaptable to standard metal mold fittings as manufactured by National Electric Products Corporation, Pittsburgh, Pa., or The Wiremold Company, Hartford, Conn. Special wood mats are supplied for such units as do not mount on stock fittings.

On installations where two-inch fireproof partitions make it impossible to install deep type boxes and where conduit must be concealed, wood frames of the required thickness must be used and will be furnished at slight additional cost over regular stations.

STANDARD SPECIFICATIONS FOR NURSES' CALLING SYSTEM

*For Operation on 12 Volts A.C. or D.C.***System**

Install, as directed in these specifications, a complete Nurses' Calling System operating on 12 volts A.C. or D.C. No relays, magnetic switches, solenoids, or other similar devices shall be used in the system.

Operation

At each bed there shall be a calling station having a cord with an automatic button attached. A patient desiring a nurse shall press the button which, in the case of a private room, shall cause a lamp to light at the following locations: Corridor over the door of the room calling; pilot stations; diet kitchen and nurses' duty room; annunciator at the nurses' desk on that floor; in wards a pilot lamp will also light on station of patient calling; and at the same time shall sound momentarily, buzzers in the annunciator and pilot stations.

Should plug disengage from receptacle by accident, all lamps on circuit shall light as in the case of a regular call.

All lamps must remain lighted until the nurse releases the button at the bedside of the patient calling. If there are two or more calls on at the same time, each call shall remain on until the button of each station is released.

The button shall be so designed as to permit the audible signal being sounded repeatedly, if necessary, by the patient in order to attract the nurse's attention, and constructed so that the repeating of the audible signal shall flash the lamps intermittently until the call is reset by the nurse in the usual manner. The system shall be provided with switches so that the audible signals may be cut in or out, as desired.

Equipment

Private Room Stations—Install in all private rooms, at points indicated by symbol on the plans, a No. 9010W Nurses' Calling Station. Station shall consist of standard single-gang brass plate containing plug receptacle with safeguard feature, and having an easily detachable plug with 6 ft. of washable cord and an all-metal automatic calling button attached.

This station shall fit any standard single-gang switch box or outlet box cover.

Ward Stations—Install in each ward, at points indicated by symbol on the plans, a No. 9014W Nurses' Calling Station.

Station shall consist of standard single-gang brass plate containing plug receptacle with safeguard feature, bull's-eye covering a lamp, easily detachable plug with 6 ft. of washable cord with automatic calling button attached. Bull's-eye shall be removable so that the lamp can be easily examined or replaced, and so designed and colored as to be visible at a distance and from any angle.

This station shall fit any standard deep type single-gang switch box or cover, having a clear opening of $1\frac{1}{8} \times 2\frac{3}{8}$ in. and not less than $2\frac{1}{2}$ in. deep. Station shall be located at a height of 4 ft. from the floor.

Corridor Lamp Stations—Install in corridors, over the door of each ward and private room, at points indicated by symbol on the plans, No. 9025W Dome Type Corridor Lamp Station with doubly protected lamp. Station shall be equipped with two lamps with barrier between and shall indicate a lamp burn-out by lighting but half of the dome. It shall be dust and light-tight and readily seen when lamp is illuminated, even if exposed to the sunlight.

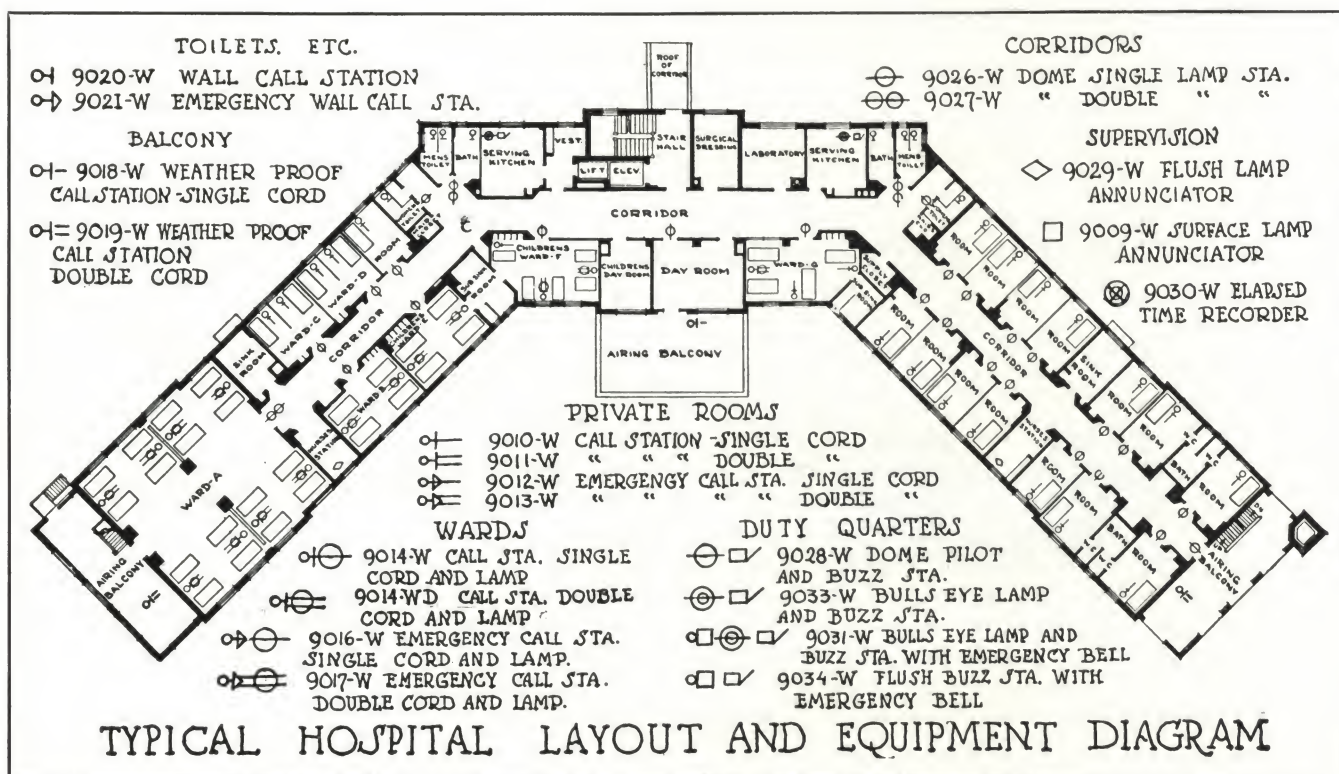
Station shall consist of brass plate, having mounted thereon a glass dome covering candelabra base receptacles and lamps. Dome shall be frosted white inside and set in hinged frame with snap catch so that lamps can be easily replaced.

This station shall fit any two-gang outlet box with cover, not less than $2\frac{1}{2}$ in. deep.

Bull's-eye Indicating Duty Station—Install in each diet kitchen and duty room, at points indicated by symbol on the plans, a No. 9033W Bull's-eye Indicating Duty Station. Station shall consist of a brass plate having two or more lamps. Each lamp shall have an individual cap lettered to indicate source of the call. It shall have an audible signal contained within the case, and a control switch mounted on the outside of the trim so that the audible signal can be cut in or out. The face plate shall be hinged for access to lamps and have snap fastener.

The two and four-lamp stations shall fit a standard three-gang outlet box with cover, not less than $2\frac{1}{2}$ in. deep. For each additional two lamps, over four, the plate will be increased one gang.

Supervisory Annunciator—Install at the nurses' desk on each floor, at point indicated by symbol on the plans, a No. 9029W Lamp Annunciator. This shall be of the flush type, all metal, and of sufficient capacity to indicate all calls on the



system. It shall be of hinged door construction. There shall be an audible signal contained inside the case which shall have a control switch mounted flush in trim of cabinet by means of which the audible signal can be silenced.

The lamps shall be so arranged and the glass so marked as to indicate the floor and the ward or private room calling. All indications shall be clean-cut and without diffusion.

Current

The system shall operate on 12 volts A.C. Where there is a reliable source of alternating current in the building, such current shall be reduced to 12 volts by means of an approved two-coil transformer furnished by the manufacturer. If there is no alternating current available, then the system shall be operated by means of a storage battery charged by a motor generator set. The manufacturer shall furnish the motor generator set, charging panel and battery.

Wiring

All wiring used in the system shall be run in iron conduit in an approved manner. There shall be no joints or splices except at regular junctions in outlet boxes. All taps, splices and joints shall be made in a thorough and workmanlike manner. Feed wires must not be less than No. 14 B & S rubber covered. Wires running to calling stations from the feed wires may be No. 16 B & S rubber covered, providing this size will not cause too great a drop in voltage.

The manufacturer shall furnish a wiring diagram showing the layout of the system and the method of installation.

Outlet and Switch Boxes—Wherever outlet or switch boxes are specified, these shall be of standard size and make, not less than 2½ in. deep to meet the requirements.

Finish

The finish of the annunciators and of all other stations shall be white enamel, unless otherwise specified in order to harmonize with other surroundings.

Manufacturer's Guarantee

The trade numbers referred to herein are those of the CONNECTICUT TELEPHONE & ELECTRIC CORP., Meriden, Conn.

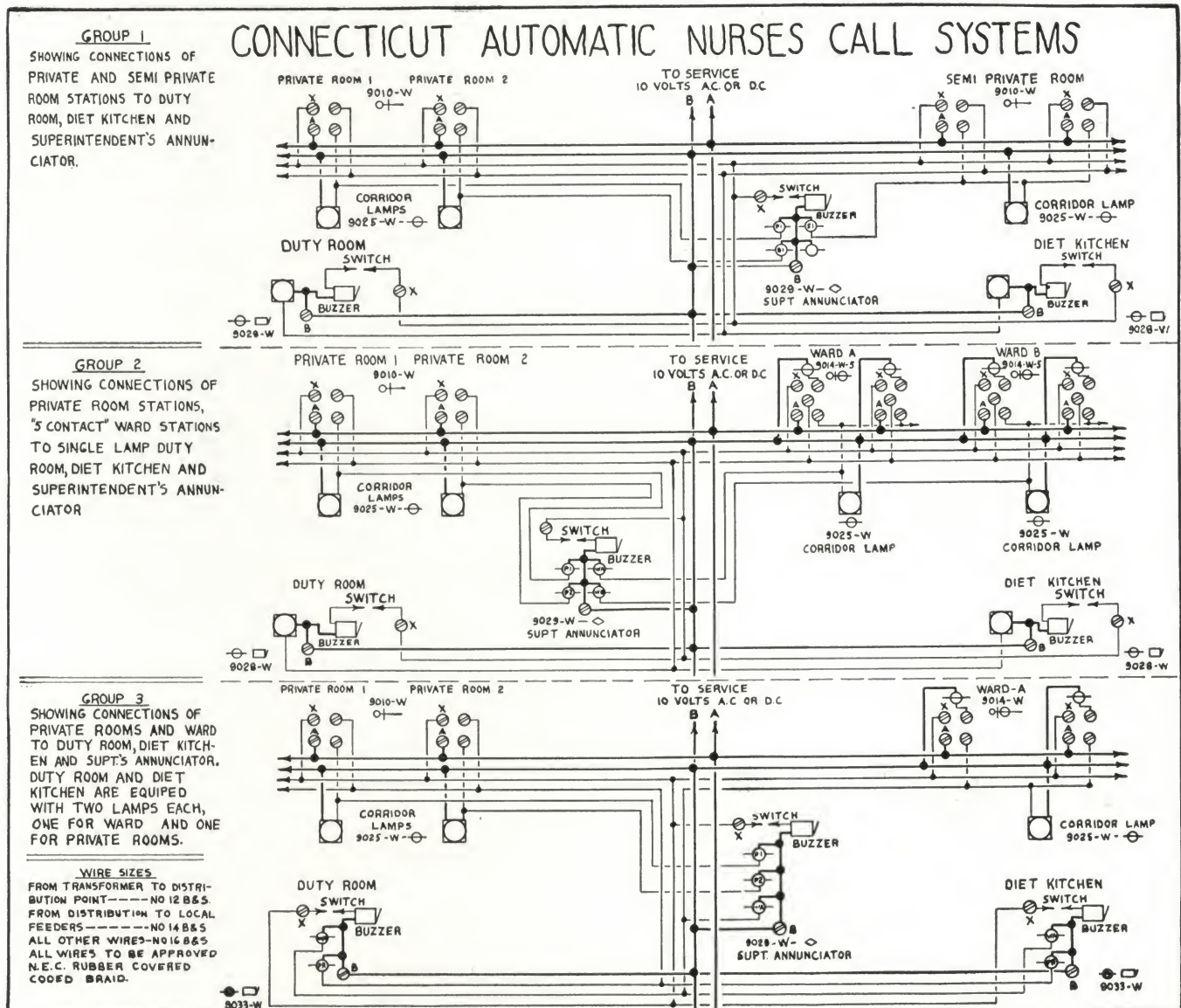
The manufacturer guarantees all apparatus against electrical or mechanical defects for a period of one year.

Contractor's Guarantee

The Electrical Contractor installing this system shall test it free from grounds, short circuits, or other electrical troubles. He shall leave it in first-class operating condition, and shall guarantee his work for a period of one year from the date of acceptance of the system.

General

Samples of any other material will have to be submitted and approved.



NURSES' CALL EQUIPMENT FOR PSYCHOPATHIC HOSPITALS

For Operation on 12 Volts A.C. or D.C.

General

In hospitals devoted to the mentally disturbed patients, a system for the purpose of affording patients a means of summoning a nurse is not required, as is the case in general hospitals. What is required is a signal system having special features and arranged in such a way so as to make it possible for a nurse to summon assistance if necessary. Therefore, a system of this type is primarily an emergency system and one that must be depended upon by a nurse to operate when required, but which the patient cannot operate nor disarrange.

The system of necessity should operate on low voltage current so that no harm may come to the patient or the nurse by the accidental grounding or short circuiting of service wires. The system may be operated from either a transformer if alternating current is available or a storage battery if direct current is available.

An automatic locking button with electric reset device is located in the patient's room and is normally de-energized or "dead," thus, the patient is unable to operate any part of the system as no current is available at that location. Another automatic locking button with bull's-eye is located outside of the room in the corridor adjoining the door trim. This station is operated by the nurse before she enters the patient's room, which action operates the bull's-eye on this station, indicating that a nurse is in this room and at the same time causes the station inside of the room to become energized or "live" and ready for use in an emergency.

Should it become necessary for the nurse to summon assistance, she presses the button on station in the room, which action causes to be lighted the corridor lamp signal above the door, and indicator at the nurses' station, a pilot lamp in the various duty rooms and also sounds a bell in the annunciator at the nurses' station and all duty rooms. The lamps remain illuminated and the bell operates continuously until assistance arrives at the room and the automatic buttons in both the corridor and patient's room are reset from the control station in corridor.

Equipment can be furnished with any modification in wiring or change in signaling units to meet special requirements.



No. 9087W

No. 9087W Room Station

Consists of a single-gang brass plate and electrically tripped automatic button mounted on sub-plate. Button is concealed by flexible leather disc which is flush with front of plate. Special head screws for fastening front plate to sub-plate make it impossible to remove same without special wrench. Fits any one-gang switch box or outlet box cover with an extreme depth of 2 1/4 in.

No. 9088W Corridor Control Station

Consists of a single gang brass plate with an automatic locking button and bull's-eye signal receptacle mounted on sub-plate. This station is equipped with a nurse's pilot light and button for energizing and de-energizing the room stations. The bull's-eye is removable for easy replacement of lamps. Is equipped with



No. 9088W

3-watt lamp and candelabra socket having tension spring to prevent lamp jarring loose.

Fits any one-gang switch box or outlet box cover with an extreme depth of 2 1/4 in.

Where pilot light is not desired on corridor control station we recommend the use of our No. 9020W station, as shown on page 7. In this case the protective type corridor lamp station having two lamps and barrier should be used. One lamp will light when corridor control button is depressed and the remaining lamp will operate when room station button is operated.

Dome Corridor Lamp Stations

No. 9025W (Protective)—This station, with doubly protected feature, consists of an opalescent glass dome held in a light-tight brass frame, hinged to a two-gang brass plate having mounted thereon two 3-watt mazda lamps wired in multiple with a barrier between; with both lamps operating, signal shows full dome light. With one lamp burned out but half the dome is lighted, indicating the necessity for lamp replacement as well as registering the call. Is held closed by means of a snap catch, which permits easy replacement of lamps.

This station is generally mounted in the corridor above the doors of patients' rooms, wards and recreation rooms to locate the nurse requiring assistance.

Fits any two-gang switch box or outlet box cover with an extreme depth of 1 5/8 in.

Where the single lamp corridor station is specified, we suggest the use of our No. 9026W Dome Corridor Lamp Station.

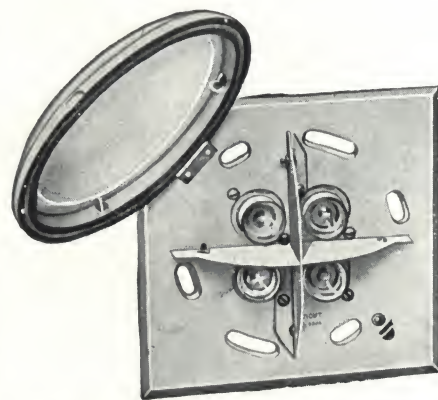
No. 9026W—Consists of an opalescent glass dome held in a light-tight brass frame, hinged to a two-gang brass plate having mounted thereon a single candelabra base receptacle and 3-watt mazda lamp. Is held closed by means of a snap catch, permitting easy replacement of lamps.

This station is generally mounted in corridor above the doors of patients' rooms, wards and recreation rooms to locate the nurse requiring assistance.

Fits any two-gang switch box or outlet box cover with an extreme depth of 1 5/8 in.



Closed—One Lamp Burned Out



Open—Showing Double Barrier Feature
No. 9025W Corridor Lamp Station

No. 9090W Bull's-eye Indicating Duty Station with Emergency Bell

Consists of required number of bull's-eye indications mounted on beveled plate hinged to sub-plate which contains the emergency bell and candelabra base sockets fitted with 3-watt mazda lamps. A screened opening behind which bell is mounted permits the emission of sound.

This station is used to indicate a group of patients' rooms, wards, recreation rooms or sections or any combination of them where a common signal is desired and definite identification signals are not required.

Standard Sizes—

No. 9090W-1, One-lamp
No. 9090W-2, Two-lamp

No. 9090W-3, Three-lamp
No. 9090W-4, Four-lamp

Larger sizes to specifications.

Station illustrated fits standard three-gang switch box or outlet box cover; extreme depth, 2½ in. Each additional two bull's-eye indications require an additional gang plate.



No. 9090W

No. 9089W Emergency Bell Station

Consists of a double gang brass plate with screened opening for concealed bell which is mounted on sub-plate.

This signal is used where it is desirable to indicate to those within hearing that a call for assistance has been made, but it is not necessary to indicate the location as the source of call is located by pilot lights.

Fits any two-gang switch box or outlet box cover with an extreme depth of 2½ in.



No. 9089W

No. 9029WP Flush Type Supervisory Lamp Annunciator

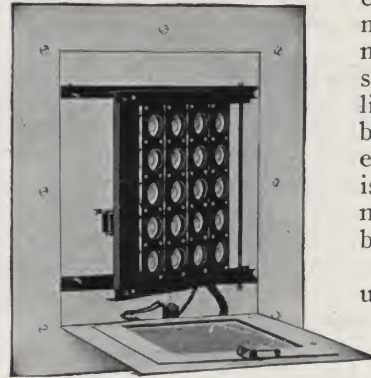
Consists of metal cabinet having a metal trim with hinged door containing the glass front.

Door is provided with lock. The lamp sockets

are arranged in banks of five or ten depending upon the size of the annunciator and are mounted on an iron frame which is integral with the front. The frame swings outward and to the right for convenience in handling incoming wires. Sockets are permanently cabled at the factory to fixed terminal strips at the bottom of the front. The white glass front shows

engraved Gothic letters or numerals only when illuminated. Each lamp is shielded to prevent cross lighting of adjacent numbers. Annunciator is fully equipped with lamp. Bell is included and is permanently connected. Outlet box is included.

This annunciator is used as a means of quickly determining the exact location where assistance is desired.



No. 9029WP

No. 555W Heavy Duty Type Transformer

For operating Nurses' Call System where alternating current is available, we recommend a No. 555W Heavy Duty Type Transformer for the most economical operation. It should be of a design approved by the National Board of Fire Underwriters. We furnish transformers built especially for this class of service and recommend their purchase with balance of signaling apparatus as a guarantee of proper operation. Standard transformers are designed for use on 110-volt, 60-cycle current with 12-volt secondary. When ordering, specify primary voltage, wattage and frequency.



No. 555W

No. 555W— 50-watt, 110-volt, 60-cycle—12-volt secondary

No. 555W—100-watt, 110-volt, 60-cycle—12-volt secondary

No. 555W—250-watt, 110-volt, 60-cycle—12-volt secondary

No. 555W—500-watt, 110-volt, 60-cycle—12-volt secondary

STANDARD SPECIFICATIONS FOR PSYCHOPATHIC HOSPITAL CALLING SYSTEM

For Operation on 12 Volts A.C. or D.C.

System

Install, as directed, in these specifications, a complete Psychopathic Hospital Calling System operating on 12 volts A.C. or D.C. No cords or other detachable devices shall be used in the system. System shall be so arranged that patient cannot operate signals.

Operation

In each private room, ward and recreation room there shall be the desired number of room calling stations having an electrically tripped automatic button. Outside of each of these rooms there shall be a corridor control station having a pilot light and automatic button. A nurse on entering a room presses the button on the corridor control station, which operates the bull's-eye on this station, indicating that a nurse is in this

room and at the same time causes the room station to become energized and ready for use in an emergency.

Should a nurse require assistance, she presses button in room station which action shall light the corridor lamp signal above the door of said room, an indication at the nurses' station annunciator, a pilot lamp in the various duty rooms and also sound a bell in the nurses' station annunciator and all duty rooms.

All lamps to remain lighted and bell to ring continuously until nurse resets the button in the corridor control station, which action shall also release button on room station.

The room station shall be so designed as to permit the flashing of the lamps intermittently by the nurse calling for assistance in order to attract the attention of other attendants.

Equipment

Room Stations—Install in all private rooms, wards and recreation rooms, at points indicated on the plans, a No. 9087W Room Station. Station shall consist of standard single-gang .060 gauge brass plate containing an automatic button with unbreakable metal plunger and its associated electric release.

This station shall fit any standard single-gang switch box or outlet box cover not less than 2½ in. deep.

Corridor Control Stations—Install in corridor outside of each room, and adjoining door trim at lock side of door at points indicated by symbol on plans, a No. 9088W Corridor Control Station. Station shall consist of a standard single-gang .060 gauge brass plate containing an automatic button with unbreakable metal plunger and bull's-eye covering a lamp. Bull's-eye shall be removable so that the lamp can be easily examined or replaced, and so designed and colored as to be visible at a distance from any angle.

This station shall fit any standard single-gang switch box or cover not less than 2½ in. deep.

Corridor Lamp Stations—Install in corridors, over the door of each private room, ward and recreation room, at points indicated by symbol on the plans, No. 9025W Dome Type Corridor Lamp Station with doubly protected lamp. Station shall be equipped with two lamps with barrier between and shall indicate a lamp burn-out by lighting but half the dome. It shall be dust and light-tight and readily seen when lamp is illuminated, even if exposed to sunlight.

Station shall consist of brass plate, having mounted thereon a glass dome covering candelabra base receptacles and lamps. Dome shall be frosted white inside and set in hinged frame with snap catch so that lamps can be easily replaced.

This station shall fit any two-gang outlet box with cover not less than 2½ in. deep.

Bull's-eye Duty Station with Emergency Bell—Install in each diet kitchen and duty room, at points indicated by symbol on the plans, a No. 9090W Bull's-eye Duty Station with Emergency Bell. Station shall consist of a brass plate having two or more lamps. Each lamp shall have an individual cap lettered to indicate source of the call. It shall have a permanently connected bell contained within the case which is to be concealed behind screened opening. The face plate shall be hinged for access to lamps and have snap fastener.

The two and four-lamp stations shall fit a standard three-gang outlet box with cover not less than 2½ in. deep. For each additional two lamps, over four, the plate will be increased one gang.

Annunciator—Install at the nurses' desk on each floor, at point indicated by symbol on the plans, a No. 9029WP Lamp Annunciator. This shall be of the flush type, all metal, and of sufficient capacity to indicate all calls on the system. It shall be of hinged door

construction. There shall be a permanently connected bell contained inside of case.

The lamps shall be so arranged and the glass so marked as to indicate the floor and the various rooms calling. All indications shall be clean-cut and without diffusion.

Current

The system shall operate on 12 volts A.C. Where there is a reliable source of alternating current in the building, such current shall be reduced to 12 volts by means of an approved two-coil transformer furnished by the manufacturer. If there is no alternating current available, then the system shall be operated by means of storage battery charged by a motor-generator set. The manufacturer shall furnish the motor generator set, charging panel and battery.

Wiring

All wiring used in the system shall be run in iron conduit in an approved manner. There shall be no joints or splices except at regular junctions in outlet boxes. All taps, splices and joints shall be made in a thorough and workmanlike manner. Feed wires must not be less than No. 14 B & S rubber covered. Wires running to calling stations from the feed wires may be No. 16 B & S rubber covered providing the size will not cause too great a drop in voltage.

The manufacturer shall furnish a wiring diagram showing the layout of the system and the method of installation.

Outlet and Switch Boxes—Wherever outlet or switch boxes are specified, these shall be of standard size and make, not less than 2½ in. deep.

Finish

The finish of the annunciators shall be white enamel and all other stations shall be white enamel unless otherwise specified in order to harmonize with other surroundings.

Manufacturer's Guarantee

The trade numbers referred to herein are those of the CONNECTICUT TELEPHONE & ELECTRIC CORP., Meriden, Conn.

The manufacturers guarantee all apparatus against electrical defects for one year.

Contractor's Guarantee

The electrical contractor installing this system shall test it free from grounds, short circuits, or other electrical troubles. He shall leave it in first-class operating condition, and shall guarantee his work for a period of one year from the date of acceptance of the system.

General

Samples of any other material will have to be submitted and approved.

ASSOCIATE SYSTEMS

Catalog No. 405—Covering details, typical specifications and complete information on Connecticut Fire Alarm Systems:

- Non-interfering Fire Alarm Systems.
- Code Alarm Systems.
- Non-code Systems.
- Tank Alarm Systems.

Catalog No. 406—Covering details, typical specifications and complete information on Connecticut Electric Time Systems:

- Master and Secondary Clock Systems.
- Program Systems.
- Combination Telephone and Program Systems.
- Watchman's Clock Systems.

CONNECTICUT NIGHT LIGHTS

N. E. C. Standard

On High Voltage (110-volt) System

Night lights are designed to provide subdued illumination in corridors, wards, private rooms or wherever a guide light is required for service at night. For this service 10-watt lamps are usually supplied. When used near the beds, they are installed at the same

height as the calling station. They will give a greater amount of light than the small night light on the plate with the calling station (9059W). When used in corridor, they are generally located about 18 in. from floor.

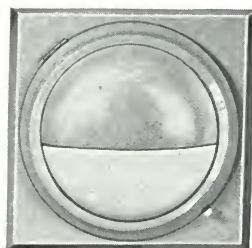
Dome Type

No. 9049W Dome Night Light (for Corridors, Wards, Private Rooms and Guide Lights) **No. 9075W Roto Night Light for Bedside Use (with Standard 10-watt, 110-volt Lamp)**

They are similar in appearance to the corridor lamp station, being the same size and having the hinged cover, snap fastener, and opaque glass dome. They differ in that the night light has a metal hood over the upper half of the glass dome which confines light to the required level. Equipped with 10-watt lamp with intermediate base.

Mounting Plate and Outlet Box—

Plate is of .060 gauge brass, $5\frac{1}{4}$ in. square, with adjustable slots for box mounting. Mounts on standard square box with $\frac{3}{4}$ -in. 2-gang cover. Extreme depth, $1\frac{7}{8}$ in. Standard finish of plate is white enamel.



No. 9049W

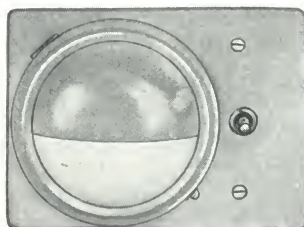
This night light is similar to No. 9049W, but is designed so that the metal hood, instead of being fixed, can be rotated so as to throw the light in the position desired. This is furnished with toggle switch on same plate to control the light; chain pull switch may be furnished if desired.

Mounting Plate and Outlet Box—

Plate is of .060 gauge brass $6\frac{3}{4} \times 5$ in., and mounts on a standard 3-gang cover or outlet box. Total depth is $1\frac{7}{8}$ in. Lamp is a standard 10-watt, 110-volt Mazda lamp with intermediate base. Finish of plate is white enamel.



Dome Rotated to Left



No. 9075W



Dome Rotated to Right

Louvred Type

No. 9074W Louvred Night Light, Vertical Type (with Standard 15-watt, 110-volt Lamp)

This louvred night light is of great use to indicate direction and afford sufficient illumination for moving about without lighting up the whole corridor. It is usually placed 18 to 24 in. above the floor, flush with the wall.

It consists of a louvred front plate with the louvres at an angle so that the light is directed to the floor. The plate is .060 gauge brass, $4\frac{5}{8} \times 6\frac{3}{4}$ in., hinged to an underframe for easy access to the lamp. A 15-watt, 110-volt Mazda lamp and standard socket is used.

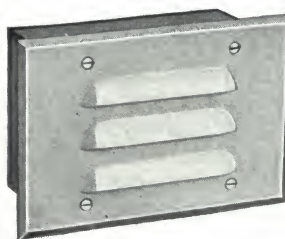
Outlet box is $4 \times 5\frac{1}{2} \times 2\frac{5}{8}$ in. deep, of 14 gauge steel with one

$\frac{1}{2}$ -in. and one $\frac{3}{4}$ -in. knockout, top and bottom, finished white enamel on inside to give best possible reflection. The finish of plate is washable white, but can be finished to match the surrounding decoration if desired.

No. 9080W Louvred Night Light, Horizontal Type



No. 9074W



No. 9080W

This louvred night light is similar to the No. 9074W, but is arranged for horizontal mounting where height of space has to be considered. Plate is $6\frac{3}{4}$ in. wide \times $4\frac{5}{8}$ in. high overall. Outlet box is $5\frac{1}{2}$ in. wide \times 4 in. high \times $2\frac{5}{8}$ in. deep.

THE PULL CORD TOGGLE SWITCH SYSTEM

For 110-volt Direct or Alternating Current or 12, 18 or 24-volt Operation

The Toggle Switch System

In addition to the automatic low voltage (10-volt) nurses' call system previously described, another dependable high grade system has been developed using toggle switch equipment for high (110-volt) or low (10-12 or 18-24) voltage A.C. or D.C. Primarily, the object in mind has been to meet conditions of installations where the first cost is a deciding factor, or where, due to its operation on 110-volt service, preference is given to this type of equipment.

The performance of this system as well as the circuit and method of operating the mechanism is identical with that accomplished by the automatic locking button with the exception of the method of operation. The difference is that with the locking button, the patient presses a plunger which is connected on the end of an easily detachable portable cord having electrical conductors, while with the toggle switch the patient pulls a linen cord which is attached directly to the handle of the switch of the calling station.

The nurse answering the call resets the switch by merely moving the lever to the "off" position as in turning off an electric light.

The installation of the toggle type switch, because of the pull cord operation, must be carefully planned

as many obstacles may arise tending to reduce its full efficiency. As a result of this it is necessary to install the stations in the wall and properly locate them with relation to the patient's bed, so that the cord will have as direct a pull as possible and that the switch may be operated with the least amount of effort. For this reason it is recommended that the switch be mounted on the wall at the head of the bed at a height of approximately 4 ft. 6 in. from the floor, arranging the cord so as to prevent the possibilities of it getting out of reach of the patient.

General Information

The apparatus used in this system is furnished complete with lamps, these being of the candelabra base type. Outlet boxes are included with supervisory annunciators and in cases where it is necessary to meet special construction of duty room and diet kitchen stations. Sizes of outlet boxes for other equipment are given under the descriptive matter of each piece.

Combinations of plates including the toggle station, convenience receptacles, radio and telephone outlets, night lights, etc., can be furnished to meet any requirement.

Nurses' Calling Stations

For High or Low Voltage

No. 9130W Private Room Calling Station



No. 9130W

Consists of a single gang brass plate with toggle switch having 6-ft. linen cord and pendant attached. A cord guide mounted below switch permits easy operation. Momentary buzzer contact may be disconnected with key through opening in front plate. Fits any standard 1-gang switch box or outlet box cover; extreme depth, 1 3/4 in.

No. 9130WE Private Room Station with Emergency Call

This station is similar to No. 9130W but equipped with extra toggle switch for emergency call. This switch is arranged with continuous bell contact that sounds emergency bells until reset at station. This service permits nurse to call assistance if patient is found in critical condition. Fits any standard 2-gang switch box or outlet box cover; extreme depth, 1 3/4 in.



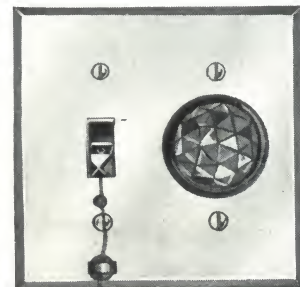
No. 9140W

No. 9140W Bath or Toilet Station

Consists of a single gang brass plate with toggle switch having short cord and pendant. Is arranged with momentary buzzer contact. This station is also used in operating rooms, solariums and for emergency service, and may be arranged with continuous bell ringing contact. Extreme depth, 1 3/4 in.

No. 9131W Ward Calling Station

This station consists of a 2-gang brass plate with toggle switch having 6-ft. linen cord and pendant and a bull's-eye pilot to indicate at once to the nurse entering the ward which patient is calling. A separate mounting complete with 115-volt lamp is supplied. Momentary buzzer contact may be disconnected with key through opening in front plate. Fits any standard 2-gang switch box or outlet box cover; extreme depth, 2 in.



No. 9131W



No. 9131WE Ward Calling Station with Emergency Call

This is similar to No. 9131W but equipped with extra toggle switch for emergency call.

This switch is arranged with continuous bell contact that sounds emergency bells until reset at station. This service permits the nurse to call assistance if the patient is found in a critical condition. Fits any standard 3-gang switch box or outlet box cover; extreme depth, 2 in.



No. 9131WE



CORRIDOR LAMP STATIONS



No. 9133W

**No. 9133W Single Dome Corridor Lamp Station**

Consists of a single gang brass plate with semi-opalescent glass dome, receptacle and 115-volt carbon filament lamp.

Fits any standard 1-gang switch box or outlet box cover; extreme depth, 1 $\frac{3}{4}$ in.

No. 9141W Double Dome Corridor Lamp Station

This station is used when both regular nurses' call and emergency service are required. Two domes

are mounted on hinged front, a white for nurses' call and a green for emergency call. The green light is recommended for emergency service rather than red as a red lamp signal is prohibited in many States for anything but Exit lighting. The hinged front construction permits easy replacement of lamps. Fits any standard 3-gang switch box or outlet box cover mounted vertical; extreme depth, 1 $\frac{3}{4}$ in.



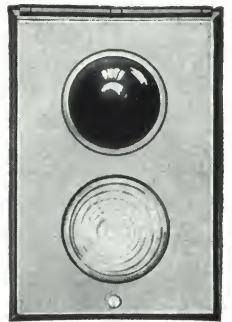
No. 9132W

**No. 9132W Exposed Lamp Station**

Consists of single gang brass plate with candelabra base receptacle and 115-volt

carbon filament lamp. May be fitted with two lamps for nurses' call and emergency service.

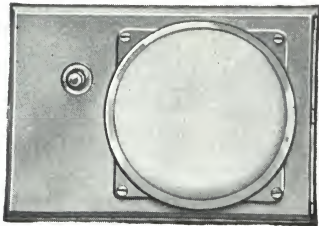
Fits any standard 1-gang switch box or outlet box cover; extreme depth, 1 $\frac{3}{4}$ in.



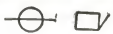
No. 9141W



Duty Room and Diet Kitchen Stations

No. 9136W Dome Type Duty Station

No. 9136W

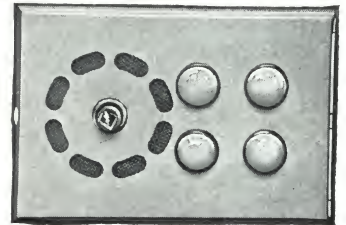


Used to indicate a group of private rooms, wards or sections where identification signals are not required. Opalescent glass dome held by means of a cast frame to hinged front plate. Candelabra base receptacle and 115-volt carbon filament lamp, buzzer and silencing switch are mounted on sub-plate.

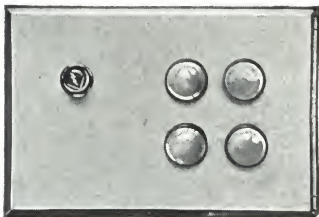
Furnished with 1, 2, 3 or 4 lamps under dome for sectional service. Fits any standard 3-gang switch box or outlet box cover; extreme depth, 2 in.

No. 9137W Bull's-eye Duty Station with Emergency Bell

Similar to No. 9135W with the addition of a permanently connected bell behind the screened openings. Used only on systems equipped with the emergency call feature. Up to four lamps fits any standard 4-gang switch box or outlet box cover. Each additional two lamps require an extra gang. Extreme depth, 2 in.



No. 9137W

**No. 9135W Bull's-eye Indicating Duty Station**

No. 9135W



Used where it is desired to indicate the room, ward or section calling. The bull's-eyes are opal lenses with smooth outer surface with Gothic characters engraved on the inner surface. Lenses are fastened permanently to hinged front plate. Candelabra base receptacle and 115-volt carbon filament lamp, buzzer and silencing switch are mounted on sub-plate.

Up to four lamps fits standard 4-gang switch box or outlet box cover. Each additional two lamps require an extra gang. Extreme depth, 2 in.

No. 9134W Buzzer Station

A flush station consisting of a buzzer and silencing switch for use where it is desirable to have buzzer independent of pilot station or annunciator.

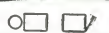
Fits any standard 2-gang switch box or outlet box cover; extreme depth, 2 in.

No. 9138W Emergency Bell and Buzzer Station

Similar to No. 9134W with the addition of a permanently connected bell beneath the screened openings. Used only on systems equipped with emergency call feature. Fits any standard 3-gang switch box or outlet box cover; extreme depth, 2 in.



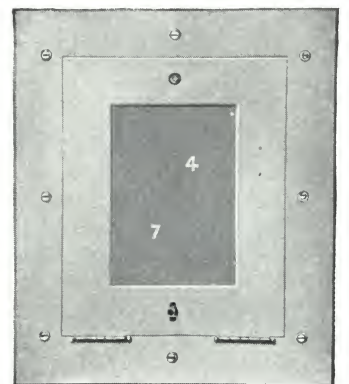
No. 9138W



Supervisory Annunciators

Sub-annunciators are usually installed at the nurses' stations on each floor and a master annunciator in the superintendent's office.

No. 9139W is furnished with hinged brass front and flush lock with glass panel. Indications are engraved on glass in clear cut Gothic figures to indicate room calling and are discernible from a distance. Lamps are mounted in banks of five and screw in porcelain receptacle. All wiring is hinged to terminal strips in outlet box. A buzzer is furnished and is controlled by a cut-out switch mounted in trim. Both are furnished as regular equipment. Where emergency service is required, indications show up in green. Outlet boxes are supplied on all annunciators and may be shipped in advance of equipment.



No. 9139W



SIGNALING EQUIPMENT FOR NURSES' HOMES

Annunciator Telephone System

For Communicating with Nurses in Their Rooms

Two methods are used for getting in touch with the nurses in their rooms; by an intercommunicating telephone system and by the return call systems described on opposite page.

The equipment described below is for use in Nurses' Homes and wings in hospitals for communication between the nurse's room and head nurse or attendant at the switchboard. Annunciator can be equipped for intercommunication between outlying stations, group ringing either in sections or in whole, for general assembly or for emergency service. A special code of rings would be arranged for this signal.

We recommend this type of system in preference to the Return Call System, as it is much more efficient, saves time, and costs very little more per station.

SYSTEM No. 30

Operation

Operator to call, inserts plug in jack numbered to correspond with room wanted and presses ringing button which sounds bell in room phone. To call annunciator, button on side of phone is pressed, throwing visual target, indicating room and sounds annunciator bell or buzzer. Operator then inserts plug in respective jack and takes message. Calls are cancelled by reset button on panel.

Equipment

No. 7500W Type T Telephone Annunciator—Is for surface mounting and is usually placed in main office near switchboard, or in head nurse's office. Consists of individual jacks and target type drops and operator's set.



No. 7500W



Drops are mounted in upper panel and marked to correspond with rooms; indications are in gold on black face plate. Jacks, operator's plug, reset button, etc., are mounted on a similar panel, properly marked in lower section.

Operator's transmitter and receiver mounts

on side of cabinet, but desk phone or hand phone may be supplied at no additional cost. When specified, annunciator will be equipped with cross connecting cords for intercommunication between rooms, or group ringing service.

Outgoing wiring on hinged front is cabled to terminals on molded strips mounted on face of back board for convenience in installing. Standard finish, golden oak with nickel trim. Annunciator may be furnished for flush mounting when so ordered.

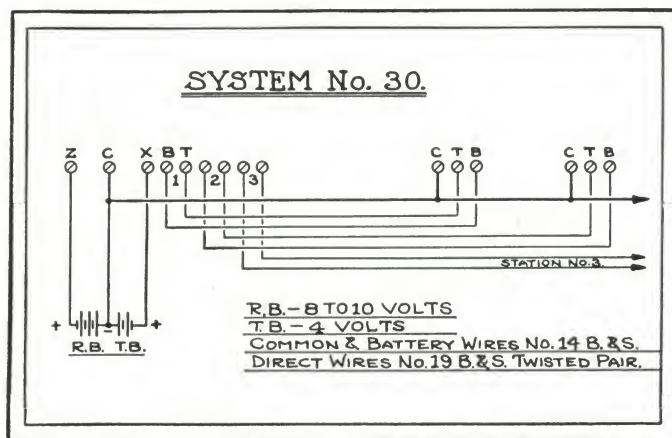
No. 600W Connectaphone for Nurses' Rooms—Is elliptical in shape with body of dark brown bakelite, designed to harmonize with any style of modern architecture. Equipped with built-in mouthpiece, watchcase receiver, concealed bell, enclosed hook switch mechanism and single push button. Front plugs into moulded terminal strip mounted on steel back plate. Has slotted screw holes for alignment and fits standard outlet boxes and covers. All painting and decorating may be done before plugging in phone. Described in detail on pages 37 and 38.



No. 600W



No. of drops	Overall dimensions, in., for 7500W and 7400W Annunciators		
	Width	Height	Projection
12	10 3/8	31 1/8	3 7/8
15 & 20	10 3/8	31 1/8	3 7/8
25 & 32	10 3/8	36 3/8	3 7/8
40 & 50	23 1/4	31 1/8	5
60	26 1/2	39 1/4	5 7/8
70 & 80	26 1/2	44 3/4	5 7/8
90 & 100	29 3/4	47 3/4	5 7/8



Return Call Annunciator Systems

For Signaling Only

Systems described on this and the following page provide for two different classes of service. One sounds audible signal at wall station; the other, in addition to audible signal, indicates call by visual target signal, registering call in nurse's absence. A return call button on either type of station indicates at annunciator.

SYSTEM No. 97

Operation

Operator, to call room, presses button on annunciator corresponding to room number and sounds buzzer on flush wall station. Nurse acknowledges presence by

pressing button on this station which indicates on annunciator; she would then go to floor phone for instructions. A reset button cancels call on annunciator.

general call service, equipment will be wired for System No. 97 only.

Equipment

No. 7400W Type R Annunciator—Is for surface mounting and is usually placed in main office near switchboard or in head nurse's office. Consists of individual calling buttons and target type drops. Drops are mounted in upper panel and marked to correspond with rooms; indications are in gold on black face plate. Calling buttons and reset buttons are on a similar panel in lower section.

When specified, annunciator will be furnished for individual reset, group calling in sections or in whole. This special signaling may be used for general assembly or emergency service. A special code of rings is arranged for this signal.

Outgoing wiring on hinged front is cabled to terminals on molded strips on face

of back board for convenience in installing.

Standard finish, golden oak with nickel trim. Annunciator may be furnished for flush mounting when so ordered.

No. 305W Flush Type Return Call Station—Consists of a concealed buzzer and push button mounted on sub-base and fits single gang outlet box or cover, 1½ in. deep. Top plate is installed after all interior decorating is completed. Standard finish, mat gold, brush brass or sprayed bronze.



No. 305W



For surface mounting, use Wire-mold fitting No. 5748 or National Electric Products fitting No. 439.

Wiring

Standard wiring, 1 common, 2 direct from each outlying station. Can be supplied for 2 common and 1 direct. When so ordered, specify System No. 97A. For

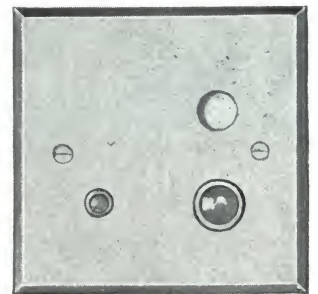


No. 7400W



gauge brass and is installed after all interior decorating is completed. Standard finish, mat gold, brush brass, or sprayed bronze. Fits any standard two-gang switch box or outlet box cover; extreme depth, 2¼ in.

For surface mounting, we supply a special wood mat for attaching to wall surface. No other fittings are required. When ordering, specify No. 304W-S.



No. 304W



Wiring

Standard wiring, 2 common, 2 direct from each outlying station. Can be supplied for 3 common, 1 direct. When so ordered, specify System No. 98A. For general call service, equipment will be wired for System No. 98 only.

SYSTEM NO. 98

Operation

Similar in operation to System No. 97, but indicates call on room station by visual target signal and registers same in nurse's absence. The nurse, on entering room, and seeing call set up would reset drop and press return call button, which would indicate at annunciator. She would then go to floor phone for instructions.

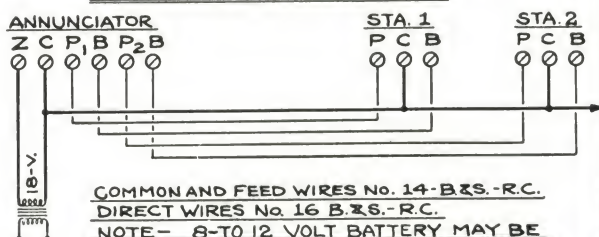
Equipment

No. 7400W Type R Annunciator—Same as described under System No. 97. (See page 21 for dimensions.)

No. 304W Flush Type Return Call Station with Indicator—Consists of concealed buzzer, push button for calling, target type drop, and reset button mounted on two-gang sub-plate. Top plate is .060

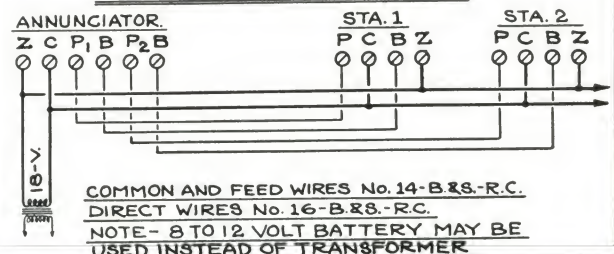
SYSTEM No. 97.

1 COMMON & 2 DIRECT WIRES



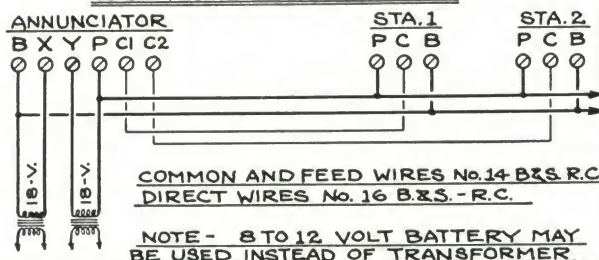
SYSTEM No. 98.

2 COMMON & 2 DIRECT WIRES



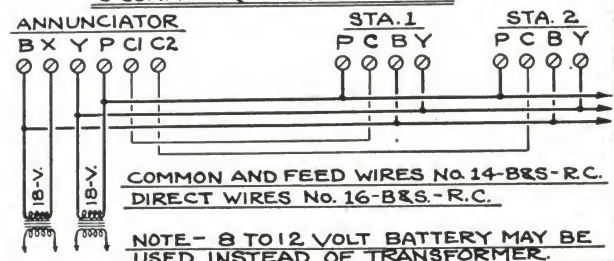
SYSTEM No. 97-A.

2 COMMON & 1 DIRECT WIRES



SYSTEM No. 98-A.

3 COMMON & 1 DIRECT WIRES



DOCTORS' AND STAFF "IN AND OUT" REGISTERING EQUIPMENT

With Indirect Lighted Annunciators

Low Voltage (12 to 48-volt) System

Some means of knowing at all times which of the doctors and members of the staff are in the building is one of the most important requirements of a well equipped and efficient hospital. The Connecticut System furnishes this information in a positive, efficient and silent manner.

The equipment consists of an indirect lighted annunciator located at the main entrance for registering the doctors and staff as they enter and leave and acting as the master annunciator. Secondary annunciators are located at the telephone switchboard, superintendent's office or other places as desired and connected

to the Master Annunciator. If there is more than one entrance commonly used by the doctors and staff a keyboard should be placed at each such entrance, all connected to the main and secondary annunciator.

Where desired, the Master Annunciator at the entrance may be replaced by a keyboard which operates secondary annunciators at the telephone switchboard or elsewhere.

An auxiliary to this system is the Doctor's Recall Service by means of which any doctor can be notified immediately on entering or just before leaving the building that there is a message for him at the office.

Flush Type Indirect Lighted Annunciators

No. 9062W Flush Master Annunciator

This is the master annunciator placed at the main entrance used by Doctors and Staff upon entering and leaving the building, and if possible within view of the telephone operator.

The annunciator has a heavy brass frame surrounding a hinged door with glass panel and flush cylinder lock. Annunciators are arranged with card holder compartments behind the glass panel with individual names. A toggle switch is provided alongside of and corresponding to each compartment and marked "On" and "Off." When the Doctor enters, he throws the switch to "On" to register "In." This illuminates the compartment containing his name. On leaving the building the toggle switch is thrown to "Off" position, putting out the light. These switches will also operate secondary annunciators described later.

The glass panel of door is sprayed white with openings for names $2\frac{3}{4} \times 1\frac{1}{2}$ in. The card holders snap in slots provided for them which permits name cards to be readily inserted or changed. Annunciators are fully equipped with 12-volt lamps.

Standard finish is dark bronze, or may be finished as desired at a slight additional cost. Heavy gauge metal outlet box, with standard knockouts, will be sent in advance of the rest of the apparatus.

No. 9063W Flush Secondary Annunciator

This annunciator is similar to No. 9062W, but without the toggle switches. It is used near the telephone operator or wherever else desired. When the doctor throws the toggle switch on the master annunciator or entrance keyboard (see next page for description) it also registers on the secondary annunciator.

No. 9084W Flush Master Annunciator for Doctors' Recall Service

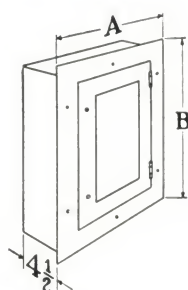
This annunciator is similar to No. 9062W but equipped with an additional pilot or recall lamp beside each name. This is used as a signal to notify the doctor arriving at the hospital, or before leaving, to get in touch with the telephone operator. This signal is controlled by the operator with an individual switch mounted beside each doctor's name on her annunciator or on a keyboard.

No. 9081W Flush Secondary Annunciator for Doctors' Recall Service

This annunciator is similar to No. 9063W but equipped with an individual switch beside each doctor's name. It is used near the telephone switchboard or elsewhere. The operator by throwing the proper switch lights the recall lamp in No. 9084W Annunciator to indicate to the doctor that there is a message for him at the office.



No. 9062W-12 



DIMENSIONS OF ANNUNCIATORS

Capacity	Arrangement		Width, in.	Height, in.	Wall opening, in.	
	Across	Down			Width	Height
20	2	10	16 1/2	25 1/8	14 3/8	23
40	4	10	28	25 1/8	25 1/8	23
60	4	15	28	32 5/8	25 1/8	30 1/2
80	4	20	28	40 1/8	25 1/8	38
100	4	25	28	47 5/8	25 1/8	45 1/2
120	8	15	56	32 5/8	53 1/8	30 1/2
160	8	20	56	40 1/8	53 1/8	38
180	12	15	84	32 5/8	81 1/8	30 1/2
200	8	25	56	47 5/8	53 1/8	45 1/2

Keyboards for Doctors' "In and Out" System

When more than one entrance is commonly used by the doctors and staff, means should be provided for them to register at each such entrance. For this a No. 9062W Master Annunciator is used at the main entrance and a keyboard at other entrances.

The keyboard contains toggle switches, card holders and pilot lights for each doctor and member of the staff. The keyboards and annunciators are so con-

nected that when a switch is thrown "On" the pilot light at the keyboard and the corresponding lights in the master and all secondary annunciators are lighted. The pilot light in the keyboard indicates that the doctor is in and also that all lamps are lighted for if any lamp is burned out none will light and doctor knows at once that he has not registered and can report his presence in the building.



No. 9067W

DIMENSIONS OF 9067W KEYBOARD

Capacity	Arrangement		Width, in.	Height, in.	Wall opening, in.	
	Across	Down			Width	Height
20	2	10	16 ³ / ₈	18 ¹ / ₄	13 ³ / ₈	15 ³ / ₄
40	4	10	24 ⁷ / ₈	18 ¹ / ₄	22 ³ / ₈	15 ³ / ₄
60	5	12	29 ³ / ₈	20 ³ / ₄	26 ¹ / ₁₆	18 ¹ / ₄
80	5	16	29 ³ / ₈	25 ³ / ₄	26 ¹ / ₁₆	23 ¹ / ₄
100	5	20	29 ³ / ₈	30 ³ / ₄	26 ¹ / ₁₆	28 ¹ / ₄
120	6	20	58 ³ / ₈	20 ³ / ₄	55 ⁷ / ₈	18 ¹ / ₄
160	8	20	58 ³ / ₈	25 ³ / ₄	55 ⁷ / ₈	23 ¹ / ₄
180	9	20	87 ⁹ / ₁₆	20 ³ / ₄	85 ¹ / ₁₆	18 ¹ / ₄
200	10	20	58 ³ / ₈	30 ³ / ₄	55 ⁷ / ₈	28 ¹ / ₄

No. 9067W Flush Type Keyboard

Metal trim is heavy gauge brass with hinged door and flush lock. On the door are mounted toggle switches, card holders and pilot lights. Standard finish is dark bronze.

Heavy gauge metal outlet box with standard knockouts will be sent in advance of apparatus when so ordered.

No. 9066W Surface Type Keyboard

Has a hardwood case with hinged front containing a brass plate on which are mounted the switches, card holders and pilot lights. Operation is the same as for the flush type. Standard finish of brass plate is dark bronze. Case is finished to match the trim of the room.



No. 9066W

DIMENSIONS OF 9066W KEYBOARD

Capacity	Arrangement		Width, in.	Height, in.
	Across	Down		
20	2	10	12 ⁷ / ₈	17 ¹ / ₄
40	4	10	20 ⁷ / ₈	17 ¹ / ₄
60	5	12	25	19 ³ / ₄
80	5	16	25	24 ³ / ₄
100	5	20	25	29 ³ / ₄
120	6	20	29 ¹ / ₈	29 ³ / ₄
160	8	20	37 ¹ / ₈	29 ³ / ₄
180	9	20	41 ¹ / ₈	29 ³ / ₄
200	10	20	45 ¹ / ₈	29 ³ / ₄

No. 9082W Flush Type Keyboard for Doctors' Recall Service

Similar to No. 9067W but equipped with an extra pilot lamp for each name in addition to the regular equipment.

No. 9083W Surface Type Keyboard for Doctors' Recall Service

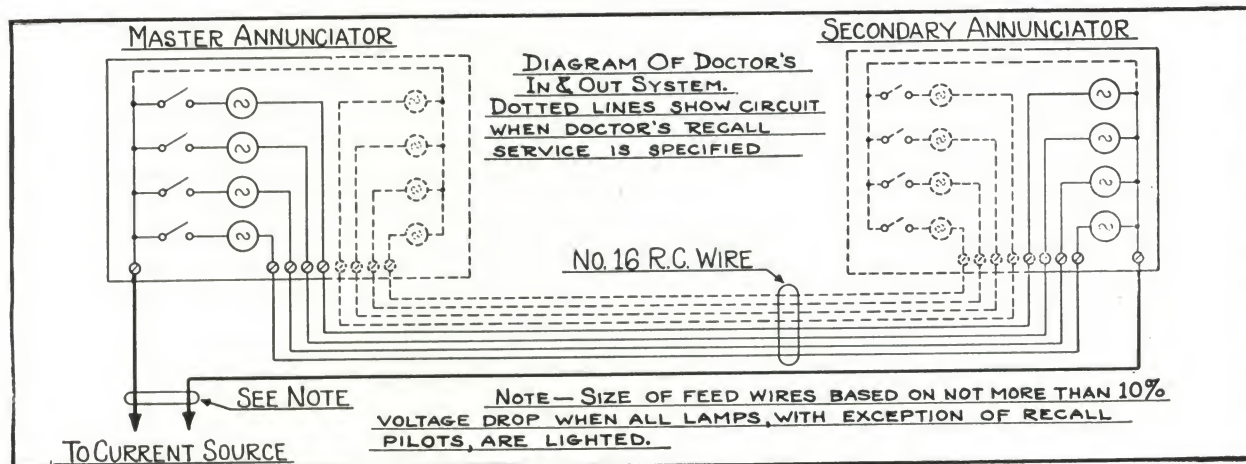
Similar to No. 9066W but equipped with an extra pilot lamp for each name in addition to the regular equipment.

Keyboards without Lamps for Doctors' Recall Service

Where Doctors' Recall Service is installed and the Master Annunciator is within view of the telephone operator, a keyboard is required to operate the recall lights. For this service No. 9067W and No. 9066W are furnished with toggle switches and card holders but without lamps.

Current Supply

For alternating current use a step-down transformer; for direct current, a motor generator. For capacity of either, multiply total number of lamps on system by 3 watts. Standard operating voltage, 12 volts a-c. or d-c. When two or more annunciators are used, they are wired in series. Blue prints should be obtained from factory before installing.



Typical Form Specification

System—This specification is to cover furnishing and installing a complete Doctors' and Staff "In and Out" System of the lamp indicating type with equipment located as shown on plans, complete with all necessary keyboards, indirect lighted annunciators, conduit and wiring, making all connections, and leaving entire system ready for service.

Operation—A doctor or member of staff upon entering the hospital may register "In" by throwing the switch opposite his name to the "On" position. This lights up compartment in sub-annunciators containing his name and also indicates on entrance pilot. All pilot and compartment lights shall be wired in series so as to insure positive registration and check system for defective lamps. On leaving hospital, doctor would throw switch to "Off" position, extinguishing his light on the various units.

Equipment—Entrance Keyboard (Optional)—Furnish and install at each entrance or at location indicated on plans a No. 9067W Flush Type Master Keyboard (or No. 9062W Master Annunciator), containing all necessary keys, pilot lamps, etc., for proper operation of system. Front to be of heavy gauge sheet brass, hinged to frame and provided with flush cylinder lock, and finished as directed by architect.

Master Annunciator (Optional)—No. 9062W Annunciator with all necessary switches and indirect lighted name compartments may be installed in place of No. 9067W Keyboard.

Sub-Annunciators—Furnish and install, in view of switch-

board operator, superintendent's office, or where shown on plans, No. 9063W Sub-Annunciators, flush type, equipped with all necessary switches and name compartments. Front shall be of heavy gauge sheet brass, hinged to frame, with flush cylinder lock. All keys and locks on this system shall be interchangeable.

Current—This system shall operate off transformer of proper voltage, where there is a reliable source of alternating current in building. If no alternating current is available, then system shall be operated by means of storage battery, charged by a motor generator set. Manufacturer shall furnish motor generator set, charging panel, and battery.

Wiring—All wiring shall be rubber-covered, run in iron conduit in approved manner. There shall be no joints or splices, except at regular junctions, in outlet boxes. No individual wire shall be smaller than No. 16B&S. Feed wires of capacity to carry 100% load, depending on number of lamps on system. Wiring diagram to be furnished by manufacturer.

General—All apparatus to be of best quality, as approved by architect and engineer, and shall be maintained without extra charge for a period of one year from date of acceptance.

All trade numbers referred to are those of the CONNECTICUT TELEPHONE & ELECTRIC CORP., Meriden, Conn.

NOTE: If the extra service for signaling doctors to report to the telephone operator on arriving, or before leaving hospital, is required, specify No. 9084W Master Annunciator or No. 9081W Secondary Annunciator or No. 9082W Keyboard, flush type, or No. 9083W Keyboard, surface type.

DOOR AND AMBULANCE SIGNALING SYSTEM

General

This system provides an efficient means of signaling from front door and ambulance entrance to attendant. Ambulance or doctor arriving at night after entrance doors have been locked, may indicate arrival on lamp annunciator located at information desk or orderly's room. Push button at entrance sounds buzzer and lights bull's-eye signal, indicating source of call. Signals remain lighted until reset at annunciator.

Entrance Button

No. 7002W Solid Bronze Weatherproof Button

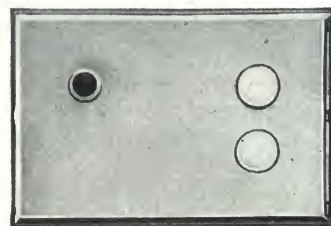
—Arranged for surface or conduit mounting. Plunger is recessed to prevent accidental signaling. Finish, polished bronze, sprayed with weather-resisting lacquer.



No. 7002W

No. 9033W-A Bull's-eye Indicating Stations—Used at both information desk and orderly's room. Front plate of heavy gauge brass is hinged to sub-plate on which buzzer, lamp sockets, etc., are mounted. The bull's-eyes are opal

lenses with engraved indications FD and AE. Hinged front with concealed snap catch permits easy replacement of lamps. Mounts on standard 3-gang switch box or cover; extreme depth, 2 in. Standard finish, white enamel.



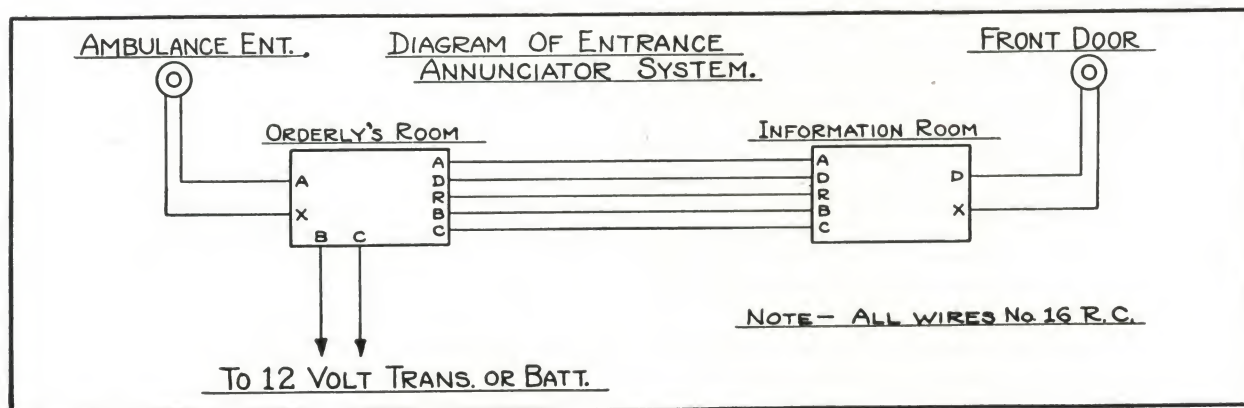
No. 9033W-A

Wiring

Run two No. 16 B&S rubber-covered wires from each push button to the terminals on each of the annunciators; two No. 14 B&S rubber-covered wires from transformer to one annunciator; and five No. 16 rubber-covered wires between each annunciator.

Current

Use 30-watt, approved, two-coil, heavy duty type transformer with entirely insulated secondary giving 12 volts, or tap off same current supply used for other systems.



DOCTORS' PAGING SYSTEMS

With Silent and Audible Call

In every hospital it is desirable to locate the different doctors and members of the staff quickly. Not infrequently, especially in hospitals handling certain types of cases, it may even be a matter of life and death. To meet this need, Connecticut has developed

several types of Doctors' Paging Systems to fulfil the requirements of every hospital and to suit the appropriation, be it large or small. Some systems use the silent call, others the audible call, and some both silent and audible calls.

Doctors' Paging System No. 90 for Large Hospitals

This system is designed for large hospitals where there are frequent calls for doctors or members of the staff. It consists of a code selector, contactor unit and as many annunciators as may be required. Three calls may be set up simultaneously by the operator at the

selector keyboard and flashed alternately on each annunciator. This is accomplished by means of the motor-driven contactor unit which controls and regulates the period of illumination of each call.

No. 9043W Code Selector

This unit as usually furnished is of the portable type for mounting on a table or shelf at the side of the telephone operator. It is supplied with 10 ft. of flexible brown cable which connects to a flush terminal cabinet. The selector cabinet is constructed of mahogany with hinged cover and heavy brass top plate containing all operating parts which are thoroughly insulated. The top is pitched at an angle of 30 degrees for ease in operating. This permits a full view of the entire keyboard.



No. 9043W



are engraved from 1 to 9 and 0. A switch, at the end of each row, starts the motor to flash the call when thrown to the left and cancels the call when thrown to the right. A switch in the lower right hand corner controls the audible signal in each annunciator. This is a momentary buzz that may be adjusted for volume and sounds after each third number has been flashed.

Pilot lights with engraved opals

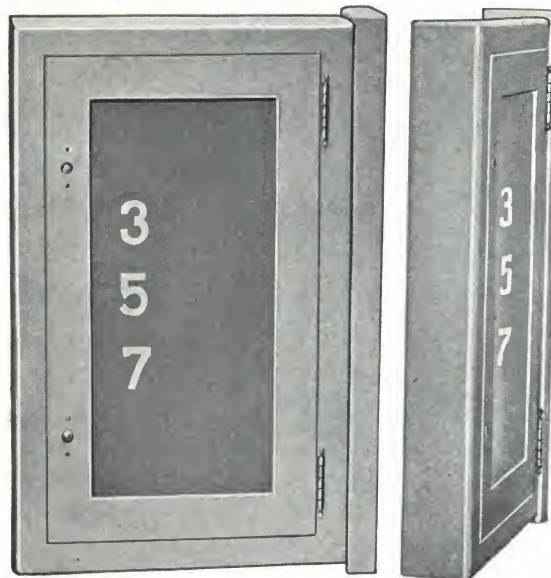
which are mounted above the keyboard denote the call being paged.

All metal trim has natural bronze finish. Dimensions of base, 17½x12 in.

Buttons are mounted in three horizontal rows and

Annunciators

These are made in several styles as shown on the next page to meet the requirements of mounting in any location. All have metal case finished in white enamel with nickel trim and are equipped with hinged door with flush locks and glass panels. The numerals are engraved on a special prepared glass surface. They are then sprayed with white enamel which makes the numerals hardly visible when there is no light behind them. The advantage of this method of forming the numerals is that there is no halation and



No. 9045W



the outlines are therefore sharp and distinct even when viewed from an angle. Numerals are arranged in two rows. The figures in one row are opposite the spaces in the other and are read in sequence when three numerals are lighted (i.e., 3 5 7).

As all calls are made up of a combination of the numerals 1 to 9 and 0, only 10 lamps are required. The maximum capacity is 175 calls using one, two or three digits. The lamps are placed in reflecting compartments which prevent the light shining through adjacent

numbers. Standard 15-watt, 110-volt lamps are used.

Provision is made for an audible signal which may be controlled by the operator at the keyboard or may be cut off at any annunciator by a toggle switch mounted on the bottom. Audible signals may be adjusted for tone to suit the location.

Double face wall and ceiling types are supplied with cast aluminum back

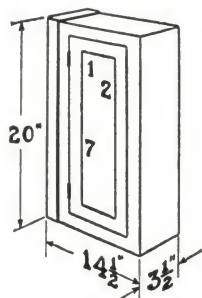


Actual Size of Numeral

plate fitted with supporting studs which slip in grooves in annunciator case and simplify hanging.

The number illustrated at the left shows the full size of indications furnished on standard paging annunciators. Special method of engraving on the glass panel results in clean-cut figures and eliminates diffusion. They are discernible at a distance when lighted and practically invisible when not lighted.

Styles of Mounting Paging Annunciators

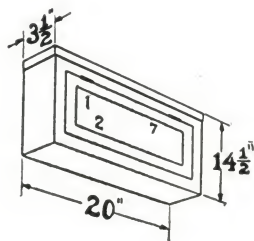
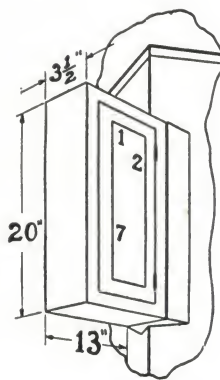


No. 9045W Annunciator

A double face annunciator with a bracket at the side for wall mounting for use in corridors.

No. 9065W Annunciator

A double face annunciator with a special bracket at the side for corner mounting. For use at junctions of corridors where it may be seen in either direction.

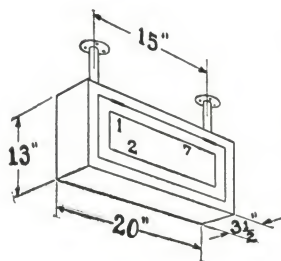
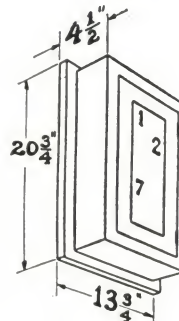


No. 9045WC Annunciator

A double face annunciator with bracket at the top for ceiling suspension for use in corridors.

No. 9047W Annunciator

A single face annunciator similar to No. 9048W, but arranged for surface mounting.

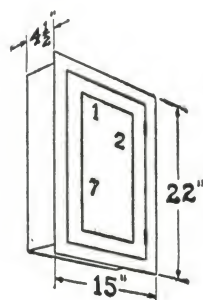
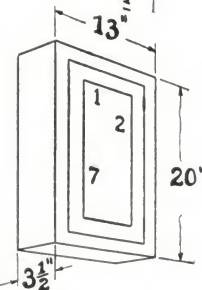


No. 9064W Annunciator

A double face annunciator with pipe support for use where the annunciator must be mounted away from the ceiling. Pipe support may be extended to bring the annunciator to the desired height.

No. 9046W Annunciator

A double face annunciator for partition mounting so that it may be seen from the corridor and also inside the room. For use in doctors' rooms, etc.

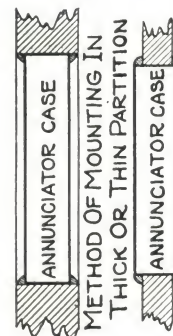


No. 9048W Annunciator

A single face annunciator for flush mounting in the wall. For use in offices, etc.

Double Face Annunciator with Two Sets of Lamps

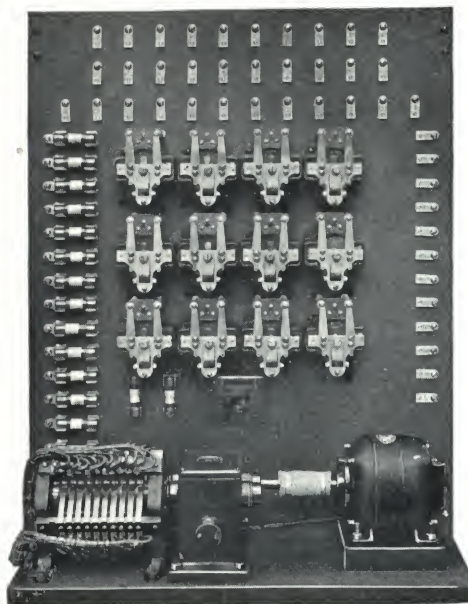
When so specified, double face annunciators can be supplied with two sets of lamps so that the numbering will read from left to right on either side. Add "D" to catalogue number of annunciator with mounting desired, i.e., No. 9045WD.



No. 9044W Contactor Unit for Paging System No. 90

The Contactor Unit controls the operation of the system. It consists of an ebonite asbestos panel on which are mounted the necessary relays, fuses, power switch, transformer and all terminals. This panel is mounted and supported on a base of the same material. The motor driven flasher mechanism is mounted on the base in front of the panel where it is accessible for inspection. It consists of a fractional horsepower motor operating the cam shaft for closing the lamp circuits through a gear box. The cams operate, in sequence, through sets of contact springs which handle the current controlled by each row of buttons on the code selector.

When a call is set up by the



No. 9044W



Typical Form Specification

System

This specification is to cover furnishing and installing an Automatic Alternate Call Three Code Doctors' Paging System with equipment located as shown on the plans, complete with all necessary Annunciators, Code Selector Unit, Contactor Unit, Conduit and Wires, making all connections, leaving the entire system ready for service.

Operation

The operator desiring to locate a doctor, may do so by setting up a given code number (i.e., 246) in numerical sequence on the Code Selector, after which "Start" key is thrown to left or start position. This causes the motor driven flasher unit to operate which in turn flashes the doctor's code on all the annunciators of the system, also pilot lights on the Selector Unit; once to each revolution of the flasher.

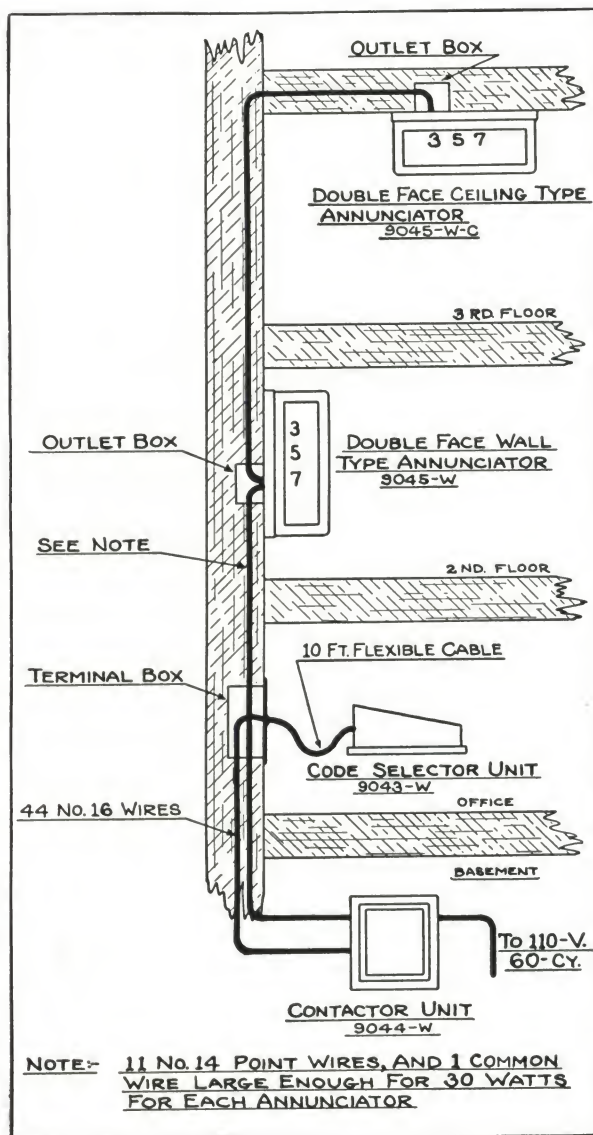
Three codes may be set up on the Selector Keyboard at the one time and codes will be flashed on all the annunciators alternately.

In addition to the codes flashing on the annunciators, a momentary buzzer may be sounded as an audible signal in each annunciator when a buzzer key at the Code Selector is in "On" position.

Upon notification, the doctor calls the operator on the nearest telephone, after which the operator will reset the call by full

operator, these springs close the circuit of the associated relays and flash the code on the various annunciators. When three calls are in operation simultaneously, the rotation of the cams cause circuits one, two and three to flash in succession and are repeated until reset individually by the operator. An additional contact for operating the audible signal is included in the spring assembly and arranged to sound once after every third call.

Unit is of rugged construction of selected material and with ordinary care will last indefinitely. Panel is enclosed in a heavy sheet steel cabinet with hinged door, glass front, provided with flush locks. Standard finish is black enamel. Dimensions, 24½ in. wide, 29 in. high, 15½ in. deep.



pressure on the "Start" key to the right.

Equipment

Paging Annunciators—At locations as indicated on the plans, install one No. 9045W double face, 10-lamp, metal case Annunciator, equipped with adjustable buzzer and cut-off switch, white glass panel doors, marked 1 to 9 and 0 in two vertical staggered rows. Markings shall be engraved Gothic type figures, same to be discernible only when signal is indicated.

Types of Annunciators—

No. 9045W Double Face Annunciators, 10-lamp, Wall Mounting, or

No. 9045W-C Double Face Annunciators, 10-lamp, Ceiling Suspension Type, or

No. 9048W Single Face Flush Annunciators, or

No. 9046W Partition Mounting Type Annunciators, showing both sides, or

No. 9047W Single Face Surface Type Annunciators, or

No. 9064W Double Face Annunciators, Ceiling Suspension Type, with extension pipe supports, or

No. 9065W Double Face Annunciators, for Corner Mounting.

Code Selector Unit—At or near the telephone switchboard, or where directed by the Architect, install a portable desk type Code Selector, three call, complete with 10 ft. flexible cable for

connection to terminals in a surface (or flush) steel cabinet having door and trim.

This unit shall consist of a neat, portable, wood case with metal face plate, having three sets of ten each selector buttons marked 1 to 9 and 0; a start and stop lever and an audible control switch; numeral markings for each button are to be engraved.

The Code Selector Unit shall also be provided with ten pilot lamps, which will indicate to the operator the code that is being flashed on the annunciators. An additional lamp (red) will indicate motor in operation.

No. 9043W Code Selector, Portable Desk Type, with 10 ft. flexible cable and Flush Terminal Cabinet.

Contacting Unit—At a point as indicated on the plans, install one Contacting Unit, complete with all necessary relays, transformer, motor driven three code flasher, switches, fuses and terminals, all to be complete and self-contained in a surface type steel cabinet with hinged door and lock.

No. 9044W Contacting Unit, complete.

Current Supply

The current for all outlying Doctors' Annunciators and Motor Driven Flasher shall be 110-volt, 60 cycle. The current for the operation of all relays, pilot lamps and operating but-

tons on the Code Selector shall be 18 volts, taken from the secondary side of a proper transformer located on the relay control panel, the primary of which will be connected to 110 volts, 60 cycle.

Wiring

All wires shall be installed according to the requirements of the National Electrical Code in rigid iron conduit; no splices to be made, runs to be continuous to junction or outlet boxes where screw or solder connection strips are to be provided; the low voltage side of system to test free and clear of grounds.

No wire smaller than No. 14 B&S "NEC" rubber-covered shall be used. Common feed wires to be of such size as to properly handle the full load of the system.

General

All apparatus is to be of the best quality as approved by the Architect and Engineer and shall be maintained without extra charge for a period of one year from date of acceptance.

All numbers referred to are those of the CONNECTICUT TELEPHONE & ELECTRIC CORP., Meriden, Conn.

Doctors' Paging System No. 91

For Small Hospitals

This system is a modification of System No. 90 and permits but one call at a time. It is suited for small hospitals where the number of calls is less or to a hospital whose appropriation will not permit the more elaborate equipment. It consists of a selector keyboard and annunciators. The contacting unit is not required, the annunciators being wired direct to the keyboard.

Operation—Consists simply of throwing the toggle switches representing the doctor's number and the start switch. The lamps remain lighted until the start switch is reset. If the flashing feature, which attracts attention more quickly is desired, a simple flasher mechanism can be added at very little extra cost.

Annunciators

These are No. 9045W Annunciators, the same as used in System No. 90, and have a maximum capacity of 175 codes using 1, 2 or 3 digits in combination. A maximum of 25 annunciators may be connected to this system. One common and 10 individual wires are required. All circuits are fused.



No. 9045W

No. 9070W Selector Keyboard

This is of the flush type and is usually mounted in the wall near the telephone operator. Two vertical rows of five standard toggle switches are mounted on a heavy brass plate hinged to the frame, and provided with a flush lock. Numbers 1 to 9 and 0 are engraved over the switch corresponding to the digit it controls. A start and stop switch mounted below starts the call after it has been set up and checked. All connections are made direct to fused terminals in the outlet box and are readily accessible for testing. Furnished with outlet box of heavy gauge metal.

Standard finish of front is natural bronze, but it can be finished to match the wall or trim. Dimensions, 19½ in. high, 16½ in. wide, 4½ in. deep.

Wall opening, 17½ in. high x 14 in. wide.

We do not recommend the portable type of selector keyboard for this system because it is operated directly from the lighting circuit.



No. 9070W

Doctors' Paging System No. 92

For Individual Calls

In large hospitals it is frequently necessary to summon a number of doctors and members of the staff at once for conferences, operations, etc. To do this by System No. 90, on which only three calls can be signalled at a time, would require too long. For such service, system No. 92, on which any number of calls may be made simultaneously and maintained as long as desired has been designed. It comprises a keyboard and annunciators and may have the flashing feature added if desired.

of the call it controls and also a bull's-eye pilot lamp which indicates at a glance what calls are being made. Keyboards are not carried in stock but are made up for specific installations. The flush type is recommended because the system operates directly from the lighting circuit. It requires one common wire and individual wires equal to the number of lamps in any annunciator. Each circuit is fused in the outlet box. Standard finish is natural bronze. In ordering specify the number of switches required. Supplied complete with heavy gauge metal outlet box.



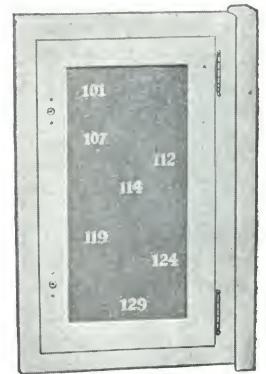
No. 9076W

**No. 9076W Individual Call Keyboard**

This is of the flush type and usually is mounted on the wall near the telephone operator. A heavy brass plate hinged to the frame carries an individual toggle switch for each call. Above each switch is engraved the number

No. 9077W Individual Lamp Annunciator

Similar in construction to the annunciators used in the preceding systems but has one lamp for each call. They are made for any style mounting as described on page 27. Standard finish is white enamel but annunciators can be finished to match walls or trim to order. In ordering specify number of lamps required, numbering desired and type of mounting.



No. 9077W



Doctors' Paging System No. 93

Audible Call

This system may be used wherever not more than thirty codes are required, where the musical tone of the chimes is not an objection, and where expense is an important item. Consists of a code transmitting machine and a series of bells or chimes. Operates direct from the 110-volt a-c. circuit through a heavy duty type relay and a transformer. Only low voltage is present in the transmitting machine. A single pair of wires connects the transmitting machine to all signals in multiple.

No. 9078W
Code Transmitting
Machine**No. 9078W Code Transmitting Machine**

This is of rugged construction with a simple mechanism. On the front is a dial on which the code numbers are engraved.

The operator, in paging a doctor, sets the dial for the individual wanted and presses the plunger down as far as it will go. The call is automatically sounded on all signals three times after the plunger is released. If the doctor does not answer, the call may be repeated by merely depressing the plunger again.

Finish is dark crackled enamel with nickel trim. Dimensions 6 in. wide, 4½ in. deep, 7½ in. high, including plunger.

No. 9079W Transformer

This is mounted in a steel cabinet installed preferably near the incoming electric service wires and supplies current to the system. A heavy duty type relay mounted in the same cabinet controls the signals.

No. 9079W
Transformer

BELL AND CHIME SIGNALS

No. 9058W
Soft Tone BellNo. 9056W
Mellow Tone BellNo. 9040W
Flush Type
SounderNo. 9042W
Surface Type
SounderNo. 9061W
Chime Signal

Doctors' Paging System No. 94

Manual Call

This is the simplest and least expensive system for paging. It is similar to System No. 93 except that the code transmitting machine is replaced by a standard telegraph key on an ebony base. The signals are transmitted by hand, the operation merely "tapping out" the code on the key. The transformer relay unit and bell and chime signals are the same as described above.

No. 9041W
Paging Key

Equipment

- No. 9041W Paging Key, surface type.
- No. 9056W Mellow Tone Bell, arranged for conduit mounting.
- No. 9058W Soft Tone Bell, arranged for conduit mounting.
- No. 9061W Chime Signal, arranged for conduit mounting.
- No. 9040W Sounder, flush type.
- No. 9042W Sounder, surface type.
- No. 9079W Transformer, described above.

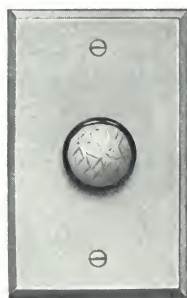
NURSES' OR MAIDS' LOCATION SYSTEM

The system described on this page permits the supervisor or matron to check the movements of nurse or maid and tell by means of lamp annunciator which room they are in attendance.

Operation

A nurse or maid, upon entering a room, operates a toggle switch, usually located inside room near the door, which lights pilot light in corridor outside the room, also indicates on lamp annunciator the room number. Annunciator is located at supervisor's or matron's station.

System operates on 12-volt current and a separate transformer of proper capacity is recommended where alternating current is available. Current may be obtained, however, by tapping off main feed wire for nurses' call system.



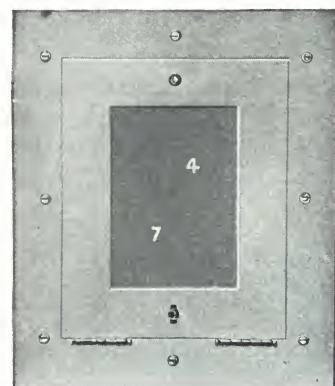
No. 9086W

mounting plate with socket and 3-watt Tungsten filament lamp permits the installation of equipment before the final finish is put on walls. The finished plate can be screwed in place after room is finished and decorated. Fits standard single gang switch box or outlet box cover; extreme depth, 1 5/8 in. Standard finish, white enamel, mat gold or polished nickel.

No. 9029W Flush Type Lamp Annunciator

Has metal trim with hinged door containing the glass front with engraved numbers.

The lamp sockets are arranged in banks of five and mounted on iron frame which is integral with front. The frame swings outward for convenience in handling incoming wires; sockets are cabled to fixed terminal strips mounted in outlet box. Annunciator furnished complete with heavy gauge outlet box with standard knock-outs.



No. 9029W



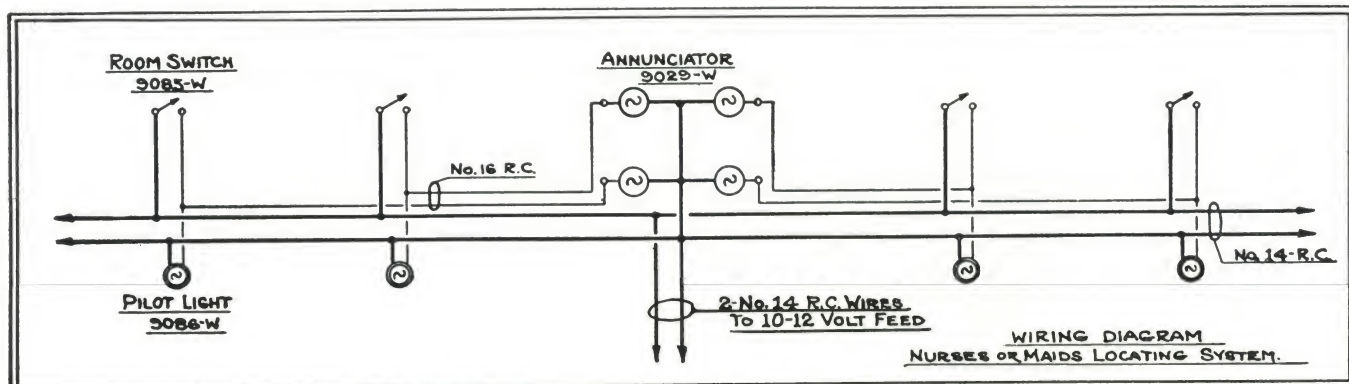
No. 9085W

No. 9085W Room Station

Consists of .060 brass flush plate, with toggle type switch. Fits standard single gang switch box or outlet box cover; extreme depth, 1 3/8 in. Standard finish, white enamel, mat gold or polished nickel.

No. 9086W Room Pilot

Consists of .060 brass flush plate with bull's-eye signal. A sub-



INTERIOR TELEPHONE SYSTEMS FOR HOSPITALS

General Information

We have been manufacturing telephone apparatus since 1894 and can supply material in this line to fill the various needs, from complete telephone switchboard equipment to special interior systems. Systems described here are suggested for Hospitals; the instru-

ments to be located at convenient points, in the corridors, at head nurse's desk, telephone switchboard, superintendent's office, nurses' home and other important locations. Any hospital having a special service requirement may consult our Engineering Department, which will be very glad to furnish complete data.

Diet Kitchen System 12A-O

Common Talking, Selective Ringing

For service between the main kitchen and diet kitchens, we suggest our System 12A-O. This is a common talking, selective ringing system, permitting the main kitchen to selectively call each diet kitchen. The diet kitchen phones are equipped with one button for calling back. Diet kitchens may communicate with each other by first calling main kitchen, which in turn calls the desired phone.

Main Kitchen Equipment



No. 5400W-8



No. 5400W Flush Phone—Consists of beveled brass plate with required number of calling buttons and card holders, double gong bell, standard transmitter and watchcase receiver. A metal outlet box with knockout at both ends is provided. Standard finish, black or mat gold. Other finishes special. Dimensions of 8-button phone illustrated, 6¼ in. wide x 12 in. high. Depth of outlet boxes 4½ in.

No. 520W Surface Type Phone—Similar in equipment, but furnished with

long type receiver. Standard finish, black or golden oak. Dimensions of 8-button phone illustrated, including receiver, 9 in. wide x 12 in. high.

They are furnished in 4, 8, 12 and 16-button sizes.

Diet Kitchen Equipment

No. 600W Connectaphone for Diet Kitchen—Is elliptical in shape with body of dark brown bakelite, designed to harmonize with any style of modern architecture. Equipped with built-in mouthpiece, watchcase receiver, concealed bell, enclosed hook switch mechanism and single push button. Front plugs into moulded terminal strip mounted on steel back plate. Has slotted screw holes for alignment and fits standard outlet boxes and covers. All painting and decorating may be done before plugging in phone. Described in detail on pages 37 and 38.



No. 520W-8



No. 600W



House System

For service between main office or head nurse's station and various floors, the same system and equipment is applicable, but our standard desk or cradle phone is suggested for the center phone.

House System Equipment

No. 5210W Desk Phone—Furnished with standard transmitter and receiver, buttons in base engraved from 1 up, directory cardholders mounted on pedestal and 6-ft. cord and ter-

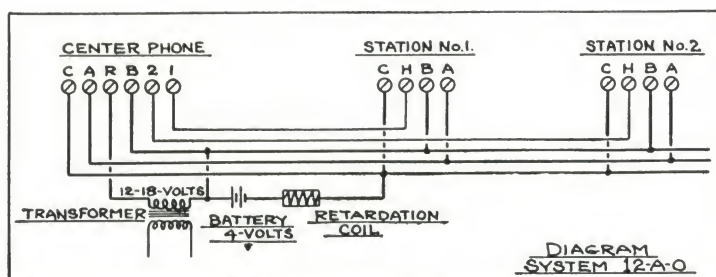
minial block. Standard finish, black. Equipped with 4, 8 and 10 buttons.

No. 6000W Cradle Phone—Furnished with bakelite hand phone correctly designed and made of selected material, light in weight, and constructed to reflect the greatest amount of speech energy to the diaphragm. Buttons are mounted in base and supplied in 4, 6 and 8-button sizes. Furnished with 6-ft. cord and terminal block. Standard finish, black.

Our catalogue No. 401-B, describing other types of intercommunicating systems sent upon request.



No. 5210W-10



No. 6000W



COMBINED NURSES' CALL AND EMERGENCY TELEPHONE SYSTEM

An Auxiliary to Nurses' Call

As an auxiliary to the regular Nurses' Call System, described on preceding pages, Connecticut has perfected an intercommunicating telephone system, using the same wiring as the Nurses' Call System, with the addition of one extra common wire looped to all bedside stations. This service is possible by means of the fifth contact on the station which is an exclusive feature with Connecticut and supplied on all wall stations.

A portable aluminum hand phone with 5-ft. cord and plug attached (same as used on nurses' calling button), inserts in receptacle at bedside station and call made in usual manner to supervisory or head nurse's station.

Is used for emergency service, usually at night when there are but few nurses on duty and enables assistance to be called without leaving patient. This is a common talking system, only one conversation may be carried on at one time.

When it is necessary to use the fifth contact on ward stations for special service on regular calling system, an extra receptacle is required on wall plate or an individual telephone receptacle placed in the ward. The maximum amount of service is therefore obtained at a minimum cost, as the only additional expense is that for phones, usually one or two per floor, depending on size of hospital.

Equipment for Nurses' Call and Emergency Telephone

No. 2500W Desk Phone

For nurse's station is furnished with standard transmitter and receiver, push button for calling back, and 6-ft. brown cord attached to terminal block. Finish, black with nickel trim.



No. 2500W



No. 6000W Cradle Phone



No. 6000W



May be used in place of desk type. Is equipped with bakelite hand phone, light in weight, attached to cradle by 6-ft. brown cord, push button, and 6-ft. cord to terminal block.



No. 649W



No. 649W Portable Aluminum Hand Phone

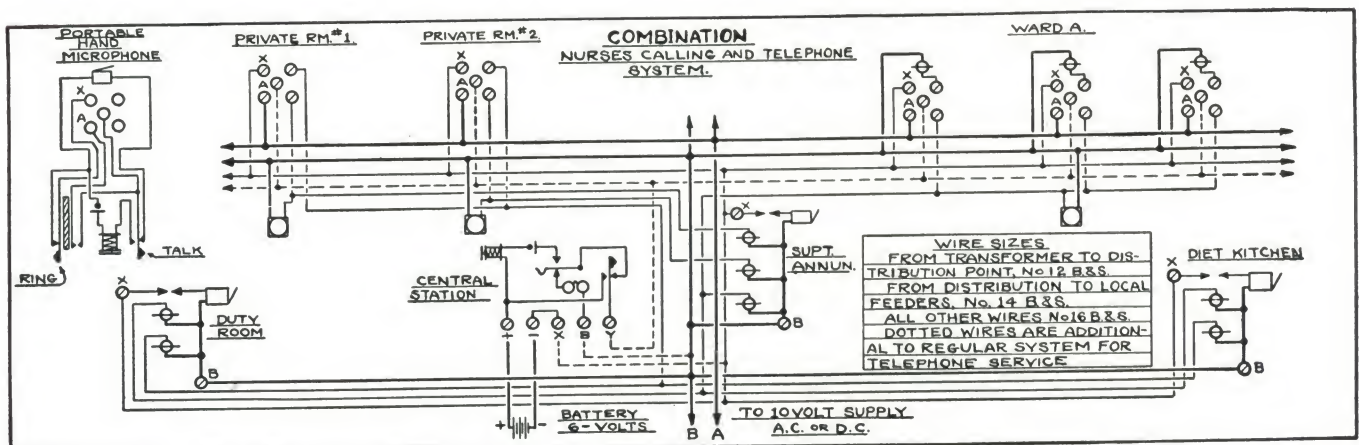
For calling only, is light in weight and equipped with calling button in handle, 5-ft. Tyrex rubber cord, and plug.

No. 648W Portable Aluminum Hand Phone

Similar to No. 649W, but equipped with buzzer, permitting nurse's station to call back. Has stationary hook for hanging up hand phone when not in service, keeping the nurse in attendance in direct touch with head nurse.



No. 648W



NURSES' TELECALL SYSTEM

In order to meet the demand for a non-interfering Telephone and Nurses' Call System for service between the patient and duty station, Connecticut has perfected a system that fully covers all requirements and enables the nurse to serve the patient quickly and efficiently. This system combines both the visual and audible service.

The bedside equipment consists of the regular wall station with cord and locking type button with extra receptacle for telephone plug, and a separate cabinet type, loud speaking telephone of solid mahogany or oak, which is mounted on bedside table or bracket or support, as approved by architect. A sensitive transmitter and receiver is mounted behind perforated plate on face of cabinet, also a push button for signaling (or a short cord and pendant push button will be provided). Telephone cabinet is attached to wall station by 6-ft. Tyrex cord and plug. The plugs and jacks are of such construction that a sudden pull in any direction will separate the plug from the jack without injury to the cord connections and on the regular nurses' system will register call automatically.

A lightweight hand phone may be substituted in place of the loud speaking bedside phone. This type of instrument permits conversation to be carried on without disturbing other patients. Is fitted with locking

type switch for signaling, "Press to Talk" button for closing talking circuit during conversation, and a 6-ft. rubber-covered cord and plug.

At the head nurse's desk or station is installed the standard type of flush lamp annunciator and in addition, a portable master telephone and answering set consisting of all necessary jacks, plug, soft tone buzzer and pilot lamp.

Operation

The patient needing attention presses button associated with bedside telephone, operating the amber pilot door lamp, master telephone signal, annunciator, pilot and section lamps and such buzzers as are connected at the time, also amber pilot lamp on master answering set. The nurse at this station inserts plug in jack corresponding to indicating lamp on annunciator and speaks to patient. The voice is heard clearly and distinctly and conversation may be carried on in a low tone several feet away from instrument. Receiver is so sensitive that patient is not required to make any special effort or change position to make known request. Upon completion of conversation, nurse disconnects plug and hangs up receiver. Signals remain lighted until call is cancelled at bedside.

Equipment for Nurses' Telecall

No. 8000W Portable Bedside Station—Consists of a mahogany or oak case with brass face plate finished dark bronze with perforated sound openings behind which sensitive transmitter and receiver are mounted. A push button for signaling is also mounted thereon or may be attached to short flexible cord. A 6-ft. cord and plug connects phone to wall station. This station may be built into bedside table or supplied with mounting brackets.



No. 8000W



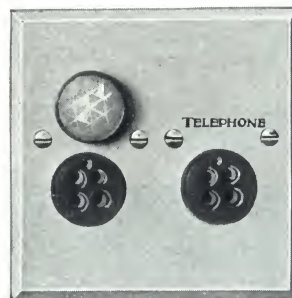
No. 648W-T Portable Aluminum Hand Phone—Light in weight and equipped with locking type switch and "Press to Talk" button in handle, and a 6-ft. Tyrex rubber-covered cord and plug. A threaded aluminum ring clamps around receiver cap to prevent breakage; a ring for hanging up phone when not in use is attached to receiver case.

No. 8001W Portable Master Station—Consists of portable mahogany cabinet with jack for each room, operator's plug, soft tone buzzer with cut-out switch, pilot lamp and Type 2500W desk set. A No. 6000W cradle set will be supplied when specified. A 6-ft. flexible cable is attached to flush terminal box.

No. 9010W-T Private Room Wall Stations—

Same as furnished on regular system, but equipped with extra telephone jack. Has two-gang plate and fits standard two-gang switch box or outlet box cover; extreme depth, 1 5/8 in.

No. 9014W-T Ward Station—Same as furnished on regular system but



9014W-T

No. 9033W-T Duty Station—Same as described on Page 9, but equipped with amber lamp for telephone signal.

No. 9029W Annunciator—Same as described on Page 10 for regular service.

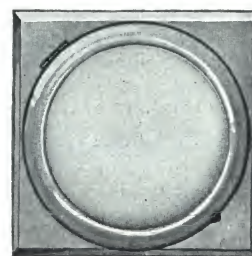
This system requires a 6-8 volt battery for talking, in addition to the transformer used in the Nurses' Call System.



9010W-T

equipped with extra telephone jack. Has two-gang plate and fits standard two-gang switch box or outlet box cover; extreme depth, 1 5/8 in.

No. 9025W-T Corridor Lamp—Fitted with barrier with one amber light for telephone signal and one white light for nurses' call signal. Fits standard two-gang switch box or outlet box cover; extreme depth, 1 5/8 in.



No. 9025W-T

"CONNECTICUT EQUIPPED"

Partial List of Hospitals Using Connecticut Nurses' Call, Doctors' Paging or Staff "In and Out" Systems

*Indicates equipment other than the above

Arizona

U. S. Veterans Hospital No. 50, Prescott
U. S. Veterans Hospital, Tucson

California

Mt. Zion Hospital, San Francisco
Santa Barbara Cottage Hospital, Santa Barbara
Ross Hospital, San Rafael
San Francisco Emergency Hospital, San Francisco
Western Pacific Railway Hospital, Portola
John McMillen Hospital, Calexico
Library Bldg., Los Angeles County Hospital, Los Angeles

Connecticut

Meriden Hospital, Meriden
*Nurses' Home, Meriden Hospital, Meriden
Bridgeport General Hospital, Bridgeport
Norwalk Hospital, Norwalk
New Britain General Hospital, New Britain
New Haven Orphan Asylum, New Haven
St. Raphael's Hospital, New Haven
Bristol Hospital, Bristol
New Haven Hospital (East and West Wards), New Haven
*Nurses' Home, New Haven Hospital, New Haven (Yale School of Nursing)
*Nurses' Home, Middlesex Hospital, Middletown
*Raleigh Filkin Memorial Hospital, New Haven
Manwaring Memorial Hospital, New London

District of Columbia

Garfield Hospital, Washington
Georgetown Hospital, Washington

Florida

Halifax District Hospital, Daytona Beach

Georgia

U. S. Veterans Hospital, Savannah
Central of Georgia Railway Co.'s Hospital, Savannah
Eggleston Memorial Hospital, Atlanta
Marietta Hospital, Marietta
State Insane Hospital, Milledgeville

Idaho

St. Luke's Hospital, Boise

Illinois

Swedish Covenant Hospital, Chicago
Chicago Lying-In Hospital, Chicago
Illinois Eye and Ear Infirmary, 115 S. Sangamon St., Chicago
*Nurses' Home, Illinois Research Hospital, Chicago
Ingalls Memorial Hospital, Harvey
Little Company of Mary Hospital, Chicago
Blessing Hospital, Quincy
Edgewater Hospital, Chicago
Mount Sinai Hospital, Chicago
Lakeview Hospital, Chicago
Bethany Old People's Home, Chicago
Garfield Park Hospital, Chicago
Illinois Central Hospital, Chicago
Michael Reese Hospital, Chicago
Berwyn Hospital, Berwyn
Greer Hospital, Vandalia
*University Hospital, Chicago
Edward Hines Hospital, Chicago
North Chicago Hospital, Chicago

Indiana

*Nurses' Home, Ball Memorial Hospital, Muncie
Ball Memorial Hospital, Muncie
St. Margaret's Hospital, Hammond
St. Anthony's Hospital, Michigan City
James Whitcomb Riley Hospital, Indianapolis
Methodist Episcopal Hospital, Indianapolis

Iowa

Mercy Hospital, Burlington

Kentucky

U. S. Veterans Hospital No. 97, Dawson Springs
Kentucky Baptist Hospital, Louisville
Kosair Crippled Children's Hospital, Louisville
Christian Church Widows' Home, Louisville
Masonic Widows' and Orphans' Hospital, Louisville
Harlan Hospital, Harlan

Louisiana

Monroe Clinic, Monroe
St. Francis Sanitarium, Monroe
French Hospital, New Orleans

Maine

Gardiner Hospital, Gardiner
Carey Hospital, Caribou
Central Maine General Hospital, Auburn
Portland Eye and Ear Infirmary, Portland

Maryland

Provident Hospital, Baltimore

Massachusetts

St. Luke's Hospital, New Bedford
Addison-Gilbert Hospital, Gloucester
Norwood Hospital, Norwood
Burbank Hospital, Fitchburg
Salem Hospital, Salem
Osteopathic Hospital, Jamaica Plain
Winchester Hospital, Boston
Melrose Hospital, Melrose
Ayer Hospital, Ayer
Masonic Hospital, Shrewsbury
*Nurses' Home, Massachusetts Women's Hospital, Roxbury
Boston City Hospital, 818 Harrison Ave., Boston
Newton Hospital, Newton

Michigan

Cottage Hospital, Grosse Pointe
Maybury Sanitarium, Northville
New Memorial Hospital, Saulte Ste. Marie
Wakefield Hospital, Wakefield
St. Francis Hospital, Escanaba
Oakland County Tuberculosis Sanitarium, Pontiac
Grace Hospital, Detroit
Florence Crittenton Home, Detroit
Women's Hospital, Detroit

Minnesota

Contagious Hospital, Ely
St. Luke's Hospital, Duluth
Nopemeng Sanitarium, Nopemeng
University of Minnesota Hospital, Minneapolis



Ball Memorial Hospital, Muncie, Ind.
KIBBLE & GARRARD, Architects, Muncie, Ind.
C. M. KIMBROUGH Co., Electrical Contractor, Muncie, Ind.

Missouri

Alexian Bros. Hospital, St. Louis

Nebraska

Lincoln City Hospital, Lincoln

New Hampshire

New Exeter Hospital, Exeter
New Hampshire Memorial Hospital, Concord
Portsmouth Hospital, Portsmouth
Nashua Memorial Hospital, Nashua
Hillsboro County Hospital, Nashua
Margaret Pillsbury Hospital, Concord

New Jersey

St. Peter's Hospital, New Brunswick
Overlook Hospital, Summit
Fair Oaks Sanitarium, Summit
Dover General Hospital, Dover
Municipal Colonies Hospital, Trenton

New York

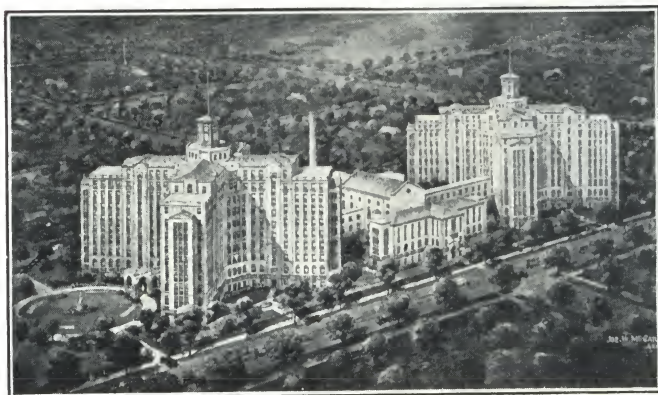
Niagara Memorial Hospital, Niagara Falls
Onondaga General Hospital, Syracuse
Masonic Home, Utica
Moses Ludington Hospital, Ticonderoga
U. S. Veterans Hospital, Northport
Cortland County Hospital, Cortland
Albany Hospital Addition, Albany
Columbia Sanitarium, Philmont
United Hospital, Port Chester
Kingston City Hospital, Kingston
*Binghamton City Hospital, Binghamton
Parkway Sanitarium, New York
St. Peter's Hospital, Brooklyn
Borough Park Maternity Hospital, Brooklyn
New York Orthopedic Hospital, New York
Victory Memorial Hospital, Brooklyn
Knickerbocker Hospital, New York
St. Mark's Hospital, 11th St. and 2nd Ave., New York
Dr. Fitch's Hospital, Borough Bronx, New York
Mount Sinai Hospital, 101st St. near Madison Ave., New York
Benedict Memorial Hospital, Ballston Spa
Syracuse Psychiatric Hospital, Syracuse
Rockville Center Hospital, Rockville Center, L. I.

North Dakota

Dickinson Clinic, Dickinson

Ohio

Peoples Hospital, Akron
St. Alexis Hospital, Cleveland
Cleveland Clinic Hospital, Cleveland
City Tuberculosis Hospital, Cleveland
Women's Hospital, Cleveland
Charity Hospital, Cleveland
U. S. Marine Hospital, Cleveland
Pathological Laboratory, 2101 Adelbert Rd., Cleveland
Youngstown City Hospital, Youngstown



Little Company of Mary Hospital, Chicago, Ill.
JOS. W. MCCARTHY, Architect, Chicago, Ill.
POST ELECTRIC CO., Electrical Contractor, Chicago, Ill.

Ohio (Continued)

*Cincinnati Sanitarium, College Hill, Cincinnati
Salvation Army Hospital, Cleveland

Oklahoma

Morningside Hospital, Tulsa
Masonic Home, Guthrie

Pennsylvania

Northeastern Hospital of Philadelphia (Section of), Phila.
Northern Liberties Hospital, Philadelphia
University of Penn. Hospital, Philadelphia
*Nurses' Home, Frankford Hospital, Frankford, Phila.
Delaware County Hospital, Delaware County, Pa.
Titusville Hospital, Titusville
McKeesport Hospital, McKeesport
Good Samaritan Hospital, Lebanon
Memorial Hospital, Roxboro
Montefiore Hospital, Pittsburgh
Bryn Mawr Hospital, Bryn Mawr
St. Luke & Children's Homeopathic Hospital, Phila.
New Maternity Bldg., Lancaster General Hospital, Lancaster
Lewistown Hospital, Lewistown

Rhode Island

South County Cottage Hospital, Wakefield
Newport Hospital, Newport
*Nurses' Home, Homeopathic Hospital, Providence

South Carolina

State Hospital, Columbia

Texas

Women's Bldg., Southwestern University, Georgetown

Washington

Yakima County Infirmary, Yakima
Centralia General Hospital, Centralia

West Virginia

State Tuberculosis Sanitarium, Hopemont, Preston County
Fairmont State Hospital No. 3, Fairmont
Chesapeake & Ohio R. R. Hospital, Huntington

Wisconsin

St. Catherine's Hospital, Kenosha

Canada

Royal Victoria Hospital, Montreal
Montreal Salvation Army Maternity Home, Montreal
Toronto General Hospital, Toronto
Toronto East General Hospital, Toronto
Lockwood Clinic, Toronto
Sacred Heart Hospital, Hull, Ontario
Weston Hospital for Consumptives, Weston, Toronto
St. Hyacinth Hospital, St. Hyacinth, P. Q.

Nova Scotia

Yarmouth Hospital, Yarmouth



Women's Hospital, Detroit, Mich.
ALBERT KAHN, INC., Architects, Detroit, Mich.
JOHN H. BUSBY CO., INC., Electrical Contractor, Detroit, Mich.

CONNECTAPHONE

A New Type Telephone for Apartment House, Hospital and Similar Use

Outstanding Features

The Connectaphone has revolutionized apartment house, school, hospital and other installations where an instrument of this type is required.

The Connectaphone is just what the name implies and has advantages that will be obvious to the owner, architect or builder who desires a modern, attractive and efficient telephone.

The body design of the Connectaphone has received the approval of several leading apartment and institutional architects and has outstanding features that will appeal at once to architects, engineers and contractors as an advance over previous commercial types.

The standard body of the Connectaphone is of dark brown bakelite, dull finish; elliptical in shape with pleasing lines designed to harmonize with any style of modern architecture. Overall dimensions are $9\frac{5}{8} \times 5\frac{1}{2}$ in. Connectaphone can be furnished in any standard bakelite color at a special price.

Connectaphone is dustproof with built-in mouthpiece and is furnished with one, two or three buttons. By the improved construction, employing bus bars, all wiring and soldering in the telephone circuit are eliminated and as a result the Connectaphone is tamperproof.

By the interchange of one or two screws or bus

bars, the circuit may be changed to conform to any of the standard circuits. Therefore, the Connectaphone permits the stocking of one type of instrument.

Receiver also serves as a distinctive telephone signal; provision is made for an enclosed special tone bell which can be used for hall or rear door.

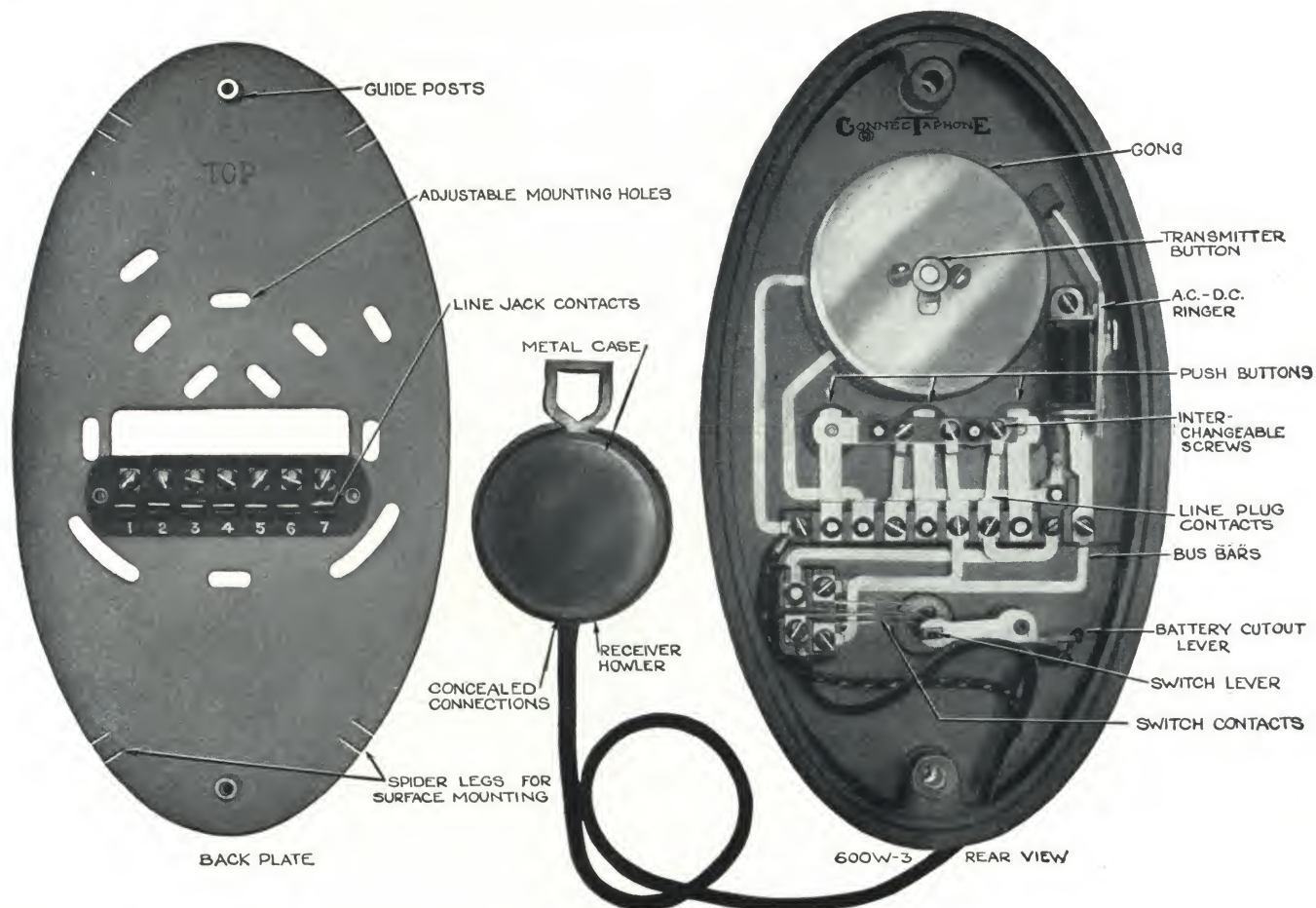
A steel back plate which fits recess in body of the Connectaphone mounts over standard outlet boxes or covers; has slotted screw holes for alignment; a molded terminal strip of jack and plug type is mounted thereon which allows test for grounds, shorts or open circuits before the Connectaphone is "plugged in." This plug-in feature leaves the wall free of obstruction, permitting painting and decorating without marring the finish of the instrument. The Connectaphone is the last item to be installed after all other work is completed.

Construction

The Connectaphone is a very beautiful instrument and must be seen and used to be fully appreciated. Embodied in its assembly are all the essential refinements that go to make up a perfect telephone. Features desired by architect, engineer, contractor or owner to eliminate troubles, experienced in other instruments in the past, have been incorporated in its design.



The Connectaphone
No. 600W



Interior Construction Details of the Connectaphone

The shape is elliptical—artistic in appearance—with body of brown bakelite. The finish is a pleasing combination of polished trim and satin mat effect. The mouthpiece is molded as an integral part of the body.

Receiver—distinctive in tone—serves as the telephone signal; transformer is used in place of ringing battery. When a-c. is not available, a battery and our No. 601W Interrupter are used.

The transmitter housing is completed by a heavy shell of bell-metal which is the gong for a concealed bell. This may be used for rear or hall door.

Receiver cord connections are concealed.

Body of bakelite—a dielectric material of high insulating characteristics—serves as a base for assembly of all component parts.

All connections are made with bus bars riveted in place to inserts molded in body. Removal of two screws or bus bars—colored for identification—adapts instrument for other circuits.

The Connectaphone is dustproof—all operating parts including receiver switch and bell are enclosed.

Accidentally leaving receiver off hook actuates an auxiliary lever inside Connectaphone preventing drain on battery.

Back plate is of heavy gauge steel rustproofed—with slotted screw holes for alignment—and mounts on

any standard single gang box or cover, 4-in. square or round, or 3¼-in. hexagonal box.

Seven numbered terminals for line wires—of the plug and jack type—are on molded strip mounted on back plate.

There is no necessity for removing line wiring for testing for either grounds, shorts or open circuits.

Room decoration may be completed before “plugging in” the Connectaphone for final acceptance.

For surface mounting—with exposed wiring—provision for spider legs is cut in back plate.

Connectaphone is furnished with one, two or three buttons as required and covered by catalogue numbers 600W1 (one button), 600W2 (two button), 600W3 (three button). Standard markings, “Door,” “Janitor” are molded on non-turnable bakelite buttons.

As the extreme projection from face of wall is no greater than standard flush type telephones, the Connectaphone may be used where either surface or flush type is specified. Overall dimensions are 9⅝ in. high, 5½ in. wide, 1⅜ in. deep—receiver extends 1⅞ in. from face of wall.

Connectaphone will be specially boxed with diagram of system when shipped in quantities to a job; otherwise two in a carton complete with diagram of circuit. As they are *interchangeable* for standard systems, stocking for counter delivery is now possible.

APARTMENT HOUSE TELEPHONE SYSTEMS

General

In most classes of apartment houses, the service required is for communication between vestibule, suites, janitor and tradesmen, and for the operation of door openers at entrances.

When desired, registration of calls can be made on janitor's unit to indicate their origin.

Vestibule telephones are of the cordless, armored cord receiver and swivel arm type and are furnished separately or grouped with mail boxes.

Vestibule Telephones

No. 84W Armored Cord Type

Consists of beveled brass plate with required number of calling buttons and card holders, transmitter with mouthpiece and watchcase type receiver. The cord is encased in flexible brass tubing attached to face plate by a concealed fastening. Cap is reinforced to prevent breakage. Metal outlet box is provided.



No.
84W-16

No. 87W Swivel Arm Type

Meets similar requirements as No. 84W with the exception that it is furnished with a swivel arm. This arm unit, including the receiver, transmitter and contact springs, is self-contained and accessible without removing face plate.

No. 86W Cordless Type

Is designed to eliminate theft of receiver and cords, also possible bending and breaking of hook switch.

Is flush, the only fittings on face of plate being the card holders and buttons.

Combination transmitter and receiver openings are confined to same space at top of face plate.

Is modern in every respect and gives perfect service.

Metal outlet box is provided.



No. 87W-12



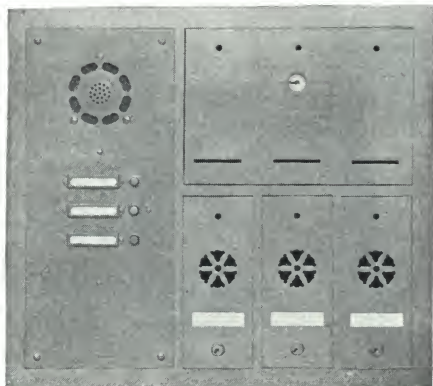
No. 86W-6

Style	Call Buttons	Overall, in.		Wall opening, in.		Button limit on 5-in. plate	Button limit on 7-in. plate
		Width	Height	Width	Height		
84W3	3	5	16 1/2	4 1/2	15 1/4	3 to 14	15 to 28
86W3	3	5	16 1/2	4 1/2	15 1/4	3 to 16	17 to 28
87W3	3	5	16 1/2	4 1/2	15 1/4	3 to 16	17 to 28

Numeral appearing after "W" denotes number of buttons; minimum sizes only are listed. For button capacity over 28 and up to 48 buttons, add 5 in. to width of phone. Depth of box in wall, 4 in.

Mail Boxes

Connecticut mail boxes are approved by the U. S. Post Office Department. These boxes have solid brass fronts and are furnished in gangs of three, four, five, six, seven and eight units. The master door opens to a horizontal position. The lower or tenants' doors are perforated to disclose mail, and when fully opened remain stationary in an upward position to give plenty of clearance. Are fitted with cylinder locks and are provided with calling card and telegram slot. Installation is made with ease. No bolts or screws are exposed.



No. 686W-3-3

No. 686W-3-3 Combined Box and Telephone

Consists of a No. 86W-3 Cordless Type Telephone built in with three mail boxes. Telephone occupies the space of two boxes. Any other vestibule type telephone may be combined with mail boxes.

Additional button capacities are provided on extra "built-in" plates, each occupying the space of two boxes and in combination with another gang of mail boxes.

DIMENSIONS OF MAIL BOXES ONLY, INCHES

Single row mounting					Double row mounting				
No. of Units	Wall opening		Overall dim.		No. of Units	Wall opening		Overall dim.	
	Width	Height	Width	Height		Width	Height	Width	Height
3	10 1/2	15 1/4	11 5/8	16 1/2	8	13 7/8	31 3/4	15	33
4	13 7/8	15 1/4	15	16 1/2	10	17 1/4	31 3/4	18 3/8	33
5	17 1/4	15 1/4	18 3/8	16 1/2	12	20 5/8	31 3/4	21 3/4	33
6	20 5/8	15 1/4	21 3/4	16 1/2	14	24	31 3/4	25 1/8	33
7	24	15 1/4	25 1/8	16 1/2	16	27 3/8	31 3/4	28 1/2	33
8	27 3/8	15 1/4	28 1/2	16 1/2	18	32 1/4	31 3/4	33 3/8	33
9	32 1/4	15 1/4	33 3/8	16 1/2	20	35 5/8	31 3/4	36 3/4	33
10	35 5/8	15 1/4	36 3/8	16 1/2	22	39	31 3/4	40 1/8	33
11	39	15 1/4	40 1/8	16 1/2	24	42 3/8	31 3/4	43 1/2	33
12	42 3/8	15 1/4	43 1/2	16 1/2	26	45 3/4	31 3/4	46 7/8	33
13	45 3/4	15 1/4	46 7/8	16 1/2	28	49 1/8	31 3/4	50 1/4	33
14	49 1/8	15 1/4	50 1/4	16 1/2	30	52 1/2	31 3/4	53 5/8	33
15	52 1/2	15 1/4	53 5/8	16 1/2	32	55 7/8	31 3/4	57	33
16	55 7/8	15 1/4	57	16 1/2	34	60 3/4	31 3/4	61 7/8	33
17	60 3/4	15 1/4	61 7/8	16 1/2	36	64 1/8	31 3/4	65 1/4	33
18	64 1/8	15 1/4	65 1/4	16 1/2	38	67 1/2	31 3/4	68 5/8	33
19	67 1/2	15 1/4	68 5/8	16 1/2	40	70 7/8	31 3/4	72	33
20	70 7/8	15 1/4	72	16 1/2	42	74 1/4	31 3/4	75 3/4	33

Top of wall opening, 62 in. from floor.
Mail box is 4 1/4 in. deep. Make wall opening 4 3/8 in. deep.
Furnished in 3, 4, 5, 6, 7, 8 units to a gang.

Suite Telephones



No. 600W-2

No. 600W Connectaphone for Suites

Is elliptical in shape with body of dark brown or black bakelite, designed to harmonize with any style of modern architecture. Equipped with built-in mouthpiece, watchcase receiver, concealed bell, enclosed hook switch mechanism and one to three push buttons. The front plugs into molded terminal strip mounted on steel back plate. Back arranged with elongated mounting holes for alignment and fits standard outlet boxes and covers. All painting and decorating may be done before plugging in phone.

No. 600WL Connectaphone with Pilot Lamp

Is similar to No. 600W Connectaphone with the exception that it contains a lamp with bull's-eye jewel in addition to the two push buttons. Lamp illuminates



No. 600WL-2

Drilled for single gang box mounting. Finish, dull black.

only when door opener button is depressed and vestibule door is opened.

No. 41W Surface Wall Type

Consists of a hinged metal case, standard transmitter, long distance type receiver, double gong bell, and one button for door opener or calling janitor; extra buttons supplied when ordered. Instrument connections are wired to a terminal strip mounted on back.



No. 41W

Janitors' Equipment and Telephone

No. 7000W Type D Telephone Annunciator

Is a surface wall instrument, complete with a call button for each suite, annunciator drops to indicate and register calls made during janitor's absence, and transmitter and receiver. Also button for electrically resetting drops and button for operating door opener. All outgoing wiring in hinged front is cabled to terminals on face of backboard. Annunciator may be sectionalized where apartment buildings have several entrances. Standard finish, golden oak with nickel trim.



No. 7000W-14

No. 7500W Type T Telephone Annunciator

This instrument is equipped with a drop and jack for each suite telephone, and when so specified, with one or more pairs of cross-connecting cords which permit communication between any two stations. Drops are electrically reset by buttons mounted on jack panel. Indications are marked in gold on black background on front of annunciator. Outgoing wiring in hinged front is cabled to terminals on face of backboard. Transmitter and receiver may

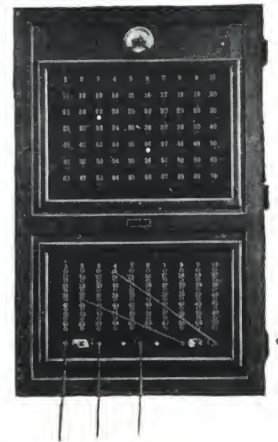
be mounted on case or can be furnished as hand microphone or desk set. Standard finish, golden oak with nickel trim.

No. 332W Janitor's Telephone

Consists of wood case, containing a call button for each suite, and a button for operat-



No. 332W-10



No. 7500W-70

ing door opener. Furnished with standard transmitter, long distance type receiver and double gong bell. Finish, golden oak.

If flush mounting telephone is desired, specify No. 333W having brass face plate.

Tradesman's Telephone and Floor Type Switchboards

No. 330W Tradesman's Telephone

Similar to No. 332W, but is furnished less bells. Is located at the dumbwaiter or rear entrance of apartment building and is provided with buttons for calling any of the suites or janitor. Finish, golden oak.

If flush mounting telephone is desired, specify No. 331W having brass face plate.



No. 330W-6

For non-interfering systems, specify 3502W for surface or 3504W for flush telephones.

No. 9350W Floor Type Switchboard

Is of the common battery, series, lamp signal type, completely equipped with double supervisory signals, operator's

set, night alarm, ringing and listening keys.

Ordinarily furnished with one cord pair for each 10 lines. Line terminals are mounted on back of cabinet. Finish, golden oak.

If desk type switchboard is desired, specify No. 9450W.

If wall type switchboard is desired, specify No. 9550W.

Suite telephones where used with switchboards do not require push buttons.



No. 9350W

INTERCOMMUNICATING TELEPHONE SYSTEMS

Common Talking—Selective Ringing

General

The common talking and selective ringing system is for use only where no more than one conversation is to be carried on simultaneously. The ringing of these telephones is selective and any instrument may be called

by depressing the corresponding button. If desired to call all or a group of stations for carrying on a conversation with several persons, all stations can be called simultaneously by means of a general call button. Furnished in 4, 8, 12 and 16-button sizes.

Station Equipment

No. 520W Surface Type Telephone

Consists of an oak case, with required number of calling buttons and card holders, double gong bell, standard transmitter and long distance type receiver. Standard finish, black or golden oak. Dimensions of 8-button phone illustrated, including receiver, 9 in. wide by 12 in. high.

May also be furnished with watchcase receiver.



No. 520W-8

or mat gold. Other finishes special. Dimensions of 8-button phone illustrated, 6¼ in. wide by 12 in. high. Depth of outlet box, 4½ in.

If flush phone is desired having hand microphone, specify No. 6250W Telephone.

No. 62W Surface Wall Telephone

Is furnished with heavy stamped steel case, finished in dull black baked enamel with polished nickel trimmings. Is equipped with standard transmitter and receiver and is made up only in 5-button size with cardholder indications. Drilled to fit on single gangle outlet box.



No. 62W

No. 5200W Desk Telephone

Furnished complete with standard transmitter receiver, buzzer and terminal block connected by a 6-ft. brown cord. No. 2150W Button Block is provided with necessary number of push buttons. Standard finish of instrument, black with nickel trimmings. Block finished in mahogany.



No. 5200W and No. 2150W-8

No. 6008W Cradle Set

Furnished with bakelite hand phone correctly designed and made of selected material, light in weight, and constructed to reflect the greatest amount of speech energy to the diaphragm. Buttons are mounted in base and supplied in 4, 6 and 8-button sizes. Furnished with 6-ft. cord and terminal block. Standard finish, black.



No. 6008W-8



No. 600W-2

No. 600W Connectaphone

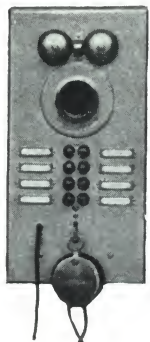
Is elliptical in shape with body of dark brown or black bakelite, designed to harmonize with any style of modern architecture. Equipped with built-in mouthpiece, watchcase receiver, concealed bell, enclosed hook switch mechanism and one to three push buttons. The front plugs into molded terminal strip mounted on steel back plate. Back arranged with elongated mounting holes for alignment and fits standard outlet boxes and covers. All painting and decorating may be done before plugging in phone. Is limited to 4-station system.

No. 600WHM Connectaphone with Hand Phone

Is similar to 600W Connectaphone with the exception that it contains a cradle and a bakelite hand phone instead of open lever switch and watchcase receiver. Hand phone is correctly designed and made of selected material, light in weight, and constructed to reflect the greatest amount of speech energy to the diaphragm. Furnished with 6-ft. cord and terminal block. Finished dark brown or black. Is limited to 4-station system.



No. 600WHM



No. 5400W-8

No. 5400W Flush Type Telephone

Consists of a beveled brass plate with required number of calling buttons and card holders, double gong bell, standard transmitter and watchcase receiver. A metal outlet box with knockout at both ends is provided. Standard finish, black

INTERCOMMUNICATING TELEPHONE SYSTEMS

*Selective Talking—Selective Ringing***General**

The selective talking and selective ringing system is for use where more than one conversation is to be carried on simultaneously. These systems are of two types, common return and metallic circuit, and consist of a push button automatic telephone of the wall or

desk type located at points to be served, each equipped with as many calling buttons as there are instruments. While the metallic circuit system insures against cross-talk or induction, the common return system will meet all ordinary conditions. Furnished in 8, 12, 16, 20 and 24-button sizes.

Station Equipment**No. 3501W Surface Wall Telephone**

Is for common return service. Consists of wood case with required number of calling buttons and card holders, standard transmitter and long distance type receiver and double gong bell. Standard finish, golden oak, dark trim. Dimensions of telephone illustrated, including receiver, are 9 in. wide by 12 in. high.



No. 3501W-8

No. 3503W Surface Wall Telephone

Similar to No. 3501W but is for metallic circuit.

No. 3801W Desk Telephone and Button Box

Consists of a portable desk telephone connected by 6-ft. flexible brown cord to the automatic button box. Button box may be mounted on wall or used on desk. Cable connections are made directly to contact springs by machine screws, eliminating soldered connections. When so specified a 6-ft. flexible brown cable and terminal block may be furnished connected directly to button box. Finish of desk stand, black and nickel; button box, golden oak. Dimensions of button box illustrated are 6¼ in. wide by 8½ in. long.

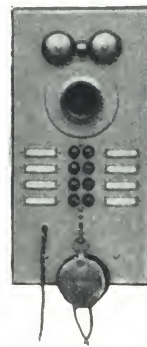
No. 3803W Desk Telephone and Button Box

Similar to No. 3801W but is for metallic circuit.

Button boxes may also be supplied with cradle set in lieu of desk set if desired.



No. 3801W-8



No. 5901W-8

No. 5901W Flush Telephone

Consists of heavy beveled brass plate with required number of automatic buttons and cardholders, double gong bell, standard transmitter and watchcase receiver. Furnished with metal outlet box. Mechanism may be installed previously to face plate.

No. 5903W Flush Telephone

Similar to No. 5901W but is for metallic circuit.

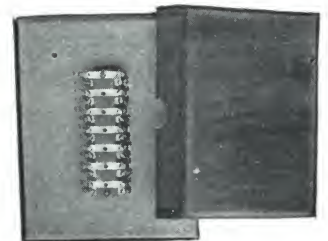
Style No.	No. of buttons	System No.	Wall opening height, in.	Plate dimensions, in.	
				Width	Height
5901W-8	8	1	10¾	6¼	12
5901W-12	12	1	12½	6¼	13¾
5901W-16	16	1	15½	6¼	16½
5901W-20	20	1	15½	6¼	16½
5903W-8	8	3	10¾	6¼	12
5903W-12	12	3	12½	6¼	13¾
5903W-16	16	3	15½	6¼	16½
5903W-20	20	3	15½	6¼	16½
5903W-24	24	3	16¾	6¼	17½

Outlet boxes are 3¾ in. wide by 4½ in. deep. The above phones may be finished special. A sample of finish should accompany all such orders.

No. 107W Terminal Junction Box

Contains two-way connector strips and is designed for use in places where splices in telephone cable, bell, or annunciator wiring occur. Allows connections to be inspected and circuits opened for testing purposes. Case is of wood. Standard sizes in multiples of seven connectors.

Terminal Junction Boxes are also furnished with four-way connectors. Steel cabinets furnished in different sizes to meet specifications and may be either of the flush or surface type.



No. 107W-14

ASSOCIATE SYSTEMS

Our Catalogue No. 405, covering details, typical specifications and complete information on Connecticut Fire Alarm Systems and Connecticut Tank Alarm Systems, sent on request.

Our Catalogue No. 406, covering details typical specifications and complete information on Connecticut Electric Time Systems, Program Systems, Watchman's Clock Systems, sent upon request.

SCHOOL TELEPHONE SYSTEM

General

This system is for use in schools where communication is desired between the office of the school superintendent or principal and the classrooms, practically without regard to size, although a switchboard system is recommended when system goes beyond 50 stations.

An ideal installation consists of a centerphone calling station and annunciator in principal's office, together with as many outlying stations as necessary.

Classroom Telephones

No. 128W Dust and Chalkproof Telephone

Is of the semiflush type and strictly a high grade, all metal case instrument with hinged front. Is equipped with adjustable transmitter, dustproof hook, metal watchcase receiver with protected cap, push button, buzzer and induction coil; receiver cord enters through dustproof rubber gasket. Outgoing wiring from hinged front is cabled to two-way terminals in outlet box; terminal strip contains spare terminals as a local distributing point for other low voltage circuits in same conduit. Mounting frame is adjustable on outlet box. Finish baked black enamel. Dimensions of instrument are $7\frac{1}{8}$ in. wide, $9\frac{7}{8}$ in. high.



No. 128W

With this equipment, centerphone can call outlying stations selectively by means of push buttons mounted on portable pad or flush wall plate. Outlying stations can call central by depressing button on telephone. Outlying stations may converse only through centerphone. Calls are recorded on the annunciator during absence of principal or attendant and may be answered upon their return. Annunciator drops are reset from button pad. Simultaneous ringing from desk pad can be furnished when specified.

May be adapted for surface mounting by using hard wood ebonized mat.

No. 600W Connectaphone for Classrooms

Is elliptical in shape with body of dark brown or black bakelite, designed to harmonize with any style of modern architecture. Equipped with built-in mouthpiece, watchcase receiver, concealed bell, enclosed hook switch mechanism and single push button. The front plugs into molded terminal strip mounted on steel back plate. Back arranged with elongated mounting holes for alignment and fits standard outlet boxes and covers. All painting and decorating may be done before plugging in phone.



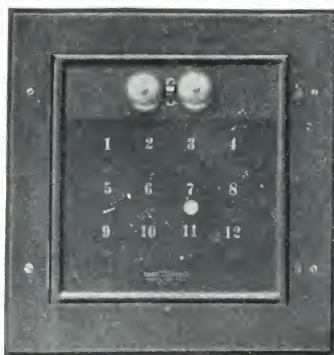
No. 600W-1

Principal's Equipment

No. 781W Flush Annunciator

Is furnished mounted on door of distribution cabinet. Equipped with electric reset drops and bell. Line wiring from hinged front is cabled to two-way connectors mounted on terminal strips and marked for identification. Button pad cable of proper length may also terminate in this cabinet, eliminating an intermediate connection box.

This simplifies installation and greatly assists in locating trouble. Cabinet may be used as distribution center for other low voltage work, having capacity for extra connectors which will be furnished when specified.



No. 781W-12

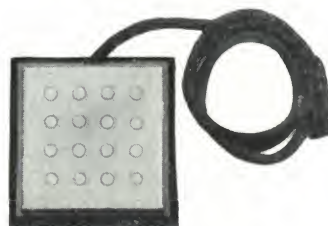
Outlet box furnished. Cabinet finished in golden oak. Special finishes per specifications.

Style No.	No. of drops	Wall opening, in.	
		Width	Height
781W-10	10	$17\frac{3}{4}$	$14\frac{1}{4}$
781W-16	16	$17\frac{3}{4}$	$19\frac{1}{4}$
781W-20	20	$17\frac{3}{4}$	$19\frac{1}{4}$
781W-24	25	$17\frac{3}{4}$	$19\frac{1}{4}$
781W-30	30	$17\frac{3}{4}$	$23\frac{1}{4}$
781W-40	40	$17\frac{3}{4}$	$23\frac{1}{4}$
781W-54	54	$17\frac{3}{4}$	$27\frac{1}{4}$

Depth of box in wall, $4\frac{1}{2}$ in. Add $1\frac{3}{4}$ in. to width and $2\frac{1}{4}$ in. to height for outside dimensions.

No. 2202W Portable Button Pad

Consists of beveled brass plate, finished black nickel with necessary self-contained white center calling and reset buttons and when so specified, general call buttons, for ringing all bells simultaneously. Button indications are engraved on plate and filled white. Plate is mounted on ebony finished mat with weighted felt base. Regularly furnished with 6-ft. brown cord, which connects button pad to terminal block, but longer cord may be furnished for connection directly to annunciator through a flush wall plate.



No. 2202W-16

No. 6000W Cradle Telephone

Furnished with bakelite hand phone correctly designed and made of selected material, light in weight, and constructed to reflect the greatest amount of speech energy to the diaphragm. Furnished with 6-ft. cord and terminal block. Standard finish, black.



No. 6000W

Switchboard System

For the class of service required in the larger schools and colleges, it is advisable to install a switchboard with an operator in attendance. Switchboard equipment is described on page 40. For outlying sta-

tions, instruments are similar to those described under school telephone system, but require no push buttons as lifting receiver off hook operates the lamp signal at switchboard.

SIGNALING EQUIPMENT FOR BANKS, OFFICES AND RESIDENCES

Button Pads and Push Buttons

No. 2109W Bakelite Desk Button Pad



No. 2109W

Consists of bakelite case to match oak or mahogany with push buttons having self-cleaning contact springs of phosphor bronze. Equipped with non-slip rubber base and 6-ft. flexible cord. Furnished in sizes up to 6 buttons.



No. 2201W-12

No. 2201W Flush Button Plate

Similar to No. 2200W but is arranged for flush mounting. Twelve buttons and over are mounted in double row.

No. 2200W Portable Button Pad

Consists of heavy solid brass plate mounted on mat with felt covered base. Name cards are inserted from the side and are held in place by bronze spring protected by transparent celluloid. Is supplied with 6-ft. flexible brown cord attached. Standard finish mahogany with nickel trim.



No. 2200W-6

No. 2108W Bakelite Push Button Base

Consists of a circular bakelite case in black, mahogany or walnut finish. Very attractive in appearance. Equipped with push buttons having self-cleaning contact springs, non-slip rubber base and 6-ft. flexible cord. Furnished in sizes up to 8 buttons.



No. 2108W

Annunciators

No. 760W Type S Surface Annunciator

Is equipped with electric reset drops and double gong bell. Line connections are mounted on back board properly marked. Indications on annunciator front are gold on black background. Standard finish golden oak. If buzzer is desired in lieu of bell specify No. 780W Annunciator.



No. 760W-16

panel in Gothic letters or numbers as specified and show only when illuminated. Fitted with buzzer. Finish statuary bronze. Depth of outlet box 4 1/2 in.



No. 770W-4

No. 770W Type G Portable Desk Target Annunciator

Is equipped with electric reset drops, cardholders, and felt-covered base with 6-ft. brown cord connected to terminal block. Standard finish mahogany.



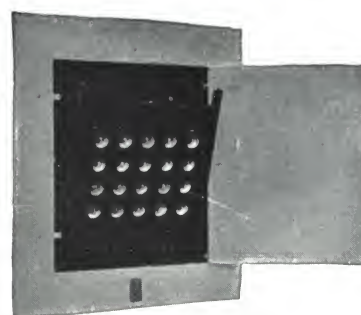
No. 771W-3

No. 771W Portable Desk Lamp Annunciator

Is equipped with Mazda lamps, felt-covered base and 6-ft. cord connected with terminal block. Hinged front permits easy replacement of lamps. Is arranged with cardholders. Standard finish mahogany.

No. 9008W Flush Lamp Annunciator

Contains circuit-closing relay for each lamp. Is equipped with Mazda lamps and candelabra base sockets. Sockets are fitted with tension spring to prevent lamps jarring loose. Indications are on white glass

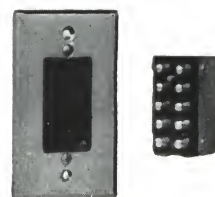


No. 9008W-20

Style No.	Wall opening, in.		Overall, in.	
	Width	Ht.	Width	Ht.
9008W-10	17 3/4	14 1/4	19 1/2	16 1/2
9008W-15	17 3/4	18 1/4	19 1/2	20
9008W-20	17 3/4	22 1/4	19 1/2	23 1/2
9008W-25	17 3/4	25 1/4	19 1/2	27
9008W-30	26 1/4	18 1/4	28 1/4	20
9008W-40	26 1/4	22 1/4	28 1/4	23 1/2
9008W-50	26 1/4	25 1/4	28 1/4	27

No. 525W Flush Separable Connector

This connector is used on desk telephone and button pad cords to disconnect apparatus from line receptacle. Eliminates splices as connections are made by screw terminals. Consists of receptacle with ten single contact nickel silver spring jacks assembled on bakelite mounting, flush brass switch plate and plug with ten single contact prongs to fit into jack. Furnished in gangs of two or more units of ten connectors.



No. 525W

No. 526W Conduit Type Separable Connector

Is similar to No. 525W except that it is arranged to mount on end of 3/4-in. kick pipe projecting from floor, less nipple and coupling. Standard finish black. For solid bronze case specify No. 526W-B.

For Other Signal Apparatus Consult Section Covering Hospital Signal Systems

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